This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

NYPL RESEARCH LIBRARIES
3 3433 06275488 6

The Edison Directory

THE EDISON DIRECTORY is published for the purpose of giving the greatest possible assistance to those desiring to use electric current for any purpose. It is issued monthly by The New York Edison Co. and, so far as possible, the accuracy of each name and address is carefully verified.

The Company also seeks to aid the largest number of responsible dealers in devices, appliances and lamps, and all contractors doing approved work at fair prices. It believes that there is a general demand for a large number of electrical centres in the City in which appliances, devices, and lamps may be shown and purchased, and through which installations may be contracted for. The Company is glad to do all that lies in its power to encourage the public's interest in and patronage of these electrical centres.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance to sell his appliances, or to make installations, so far as may lie in the power of the Company. Thus each one listed has an equal right to free space and demonstration in the showrooms of the Company and to equal endorsement by the Company's representatives, who are forbidden to recommend any particular device to the intending purchaser. The final choice, as to purchase and use, must always rest with the purchaser.

The Company makes no sales itself. It merely shows or demonstrates appliances and devices. It receives orders, however, from the purchaser for any exhibited device or appliance and transmits them to the manufacturer or agent, without commission or charge of any kind.

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave. Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Arc Lamps

Adams Bagnall Elec Co—114 Liberty St
Bogue C J Electric Co—513-15 W 29th St
Cooper-Hewitt Elec Co—730 Grand Street Hoboken N J
General Electric Co—120 Broadway
General Illuminating Co—47-49 Greene St.
Hallberg J H—1604 Broadway
Universal Electric Stage Lighting Co The—240 W 50th St
Western Elec Co—151 Fifth Ave and 105 West 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Wohl M J & Co—211 Fulton St Brooklyn N Y

Mercury Vapor Lamps

Cooper-Hewitt Elec Co—730 Grand Street Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Automobiles

C - Commercial I—Industrial P—Passenger

Anderson Electric Car Co of N Y (Detroit Electric)—Central Park West at 62d St (C & P)
Atlantic Elec Vehicle Co—30 Church St Suite 422 (C)
Automatic Transportation Co—258 B'way (I)
Baker R & L New York Corporation The—Central Park West at 62d St (P)
Buda Co of Chicago—30 Church St (I)
Comm'l Truck Co of America—30 E 42d St (C)
Couple Gear Co—(Clarence L Smith Co Agents)—544 W 30th St (C)
Cowan Truck Co—51 East 42d Street (I)
Electro Coach Corp—50 Church St (Busses)
Elwell-Parker Electric Co (Lucian C & G W Brown Agts)—50 Church St (I)
General Vehicle (Walker Vehicle Co.) — Grand Central Terminal Room 3709 (C)
Healey & Co—Broadway & 51st St (P)
Hoagland-Thayer Inc—300 Washington Street Newark N J (I)
Hunt Co C W Inc—501 Fifth Ave (I)
Koppel Industrial Car & Equipment Co—30 Church St (I)
Lansden Co Inc The—Flatbush & Nostrand Aves Brooklyn (C)
Lansing Co—492 Broome St (I)
Mercury Mfg Co—(Truck & Tractor Co Agents) 25 Church St
Walker Vehicle Co—Grand Central Terminal Room 3709 (C) (General Vehicle)
Ward Motor Vehicle Co—5736 Grand Central Terminal Bldg also Mt Vernon N Y (C)

Charging Apparatus

Allen-Bradley Co—50 Church St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Electric Products Co The—30 Church St
General Electric Co—120 Broadway
Industrial Controller Co— 120 Broadway
Lincoln Electric Co—149 Broadway
Northwestern Electric Co The—1457-63 B'way
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Charging Apparatus for Ignition, Starting and Lighting Batteries

Allen-Bradley Co—50 Church St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St.
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
General Electric Co—120 Broadway
Lincoln Electric Co—149 Broadway
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Electric Co—110 West 40th St
Westinghouse Electric & Manufacturing Co—165 Broadway

Electric Garages

Acker Merrall & Condit Co—536 W 46th St (C)
Edison Storage Battery Co—247 W 35th St (C)
Exide Battery Depots Inc
East Side Garage—141 E 25th St (C)
North Side Garage—West End Ave & 64th St (C)
West Side Garage—527-41 W 23d St (C)
International Motor Co—252 W 64 St (C)

Manufacturers and Agents (Continued)

Electric Garages (Concluded)

Electric Garage The—Central Park West & 62d St (P)
474 West 130th Street Garage Inc The—474 W 130th St (C)
Willett's Garage—15 E 58th St (P)
Wright's Garage Inc—18 Audubon Place (P)

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110-112 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St

Buffers—Polishers

Bogue C J Electric Co—513-15 W 29th St
Fort Wayne Electric Works of the General Electric Co—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511-13 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway

Coffee Mills

Boker H & Co Inc—101-103 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Fox Electric Corp (Rapid Dish Washer)—119 W 42d St
Phillipson Emil—110 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Co—110-112 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf)—303-305 Fifth Avenue
Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404-410 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Co—396 B'way (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burdett-Rowntree Mfg Co—1515 Willow Ave Hoboken N J

Manufacturers and Agents (Continued)

Elevators—Dumbwaiters (Concluded)

Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
General Elevator Co—29 Broadway
Gurney Elevator Co—300 Eighth Ave—(Gould & Vanderback)
Jordan Bros Inc—74 Beekman St
Maintenance Co The—417-421 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—114 Liberty St
Allis-Chalmers Mfg Co—50 Church St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101-103 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110-112 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396-398 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Co—151 Fifth Ave & 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352-362 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132-34-36 W 14th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bullock Mfg Co—408-12 W 13th St
Caldwell Edward F Co—36-40 West 15th St
Dale Lighting Fixture Co Inc—107-9 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19-21 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569-571 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68-70 Park Place
Mitchell Vance Co The—503 W 24th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Roeser & Heidelberger Inc—54 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—114 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way

Globes—Reflectors

Adams Bagnall Elec Co—114 Liberty St
Benjamin Electric Mfg Co—243-247 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave

Manufacturers and Agents (Continued)

Globes—Reflectors (Concluded)

Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Supply Co—36 West 37th St
Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsb'g Lamp Brass & Glass Co—35-37 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101-103 Duane St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Dover Mfg Co—30 Church St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark Messrs—200 Fifth Ave
Lightolier Company—569-571 Broadway
Lindstrom, Smith Co—41 Union Square
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396-8 B'way
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Western Elec Co—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513-15 W 29th St
Boker H & Co Inc—101-103 Duane St
Burke Elec Co—30 Church St
C & C Electric & Mfg Co—110 W 40th St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Imperial Elec Co—253 Broadway
Lincoln Electric Co—149 Broadway
Mechanical Appliance Co (Watson)—39 Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147-9 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wesche B A Electric Co—110 W 40th St
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Borne Chas A Co Inc—35-37 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const & Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6 E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 90th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147-49 W 35th St

Lists Continued on Page 21

19596A

July 1919

The Stadt Huys New York 1679

VOLUME II NUMBER 1

CONTENTS

Edison Directory — Page

Department Stores - - - - - - 1

Manufacturers and Agents - - - 1-2-3-4-21-22

Wiring and Installation Contractors - - 23-24

Authorized Mazda Lamp Agents - - - 25-32

Edison District Offices with map - Inside Cover (Back)

Edison Monthly

Editorial - - - - - - - - 6

Passing of the Private Plant - - - 7

Locks Plus - - - - - - - 11

Excelsior - - - - - - - 14

Atlantic City by Electric - - - - 15

The Home Assistant - - - - 15

The Decision - - - - - - 19

Welcome to Home Coming Troops (Photo) - - 20

Copyright 1919, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Joseph Williams, Treasurer
Lewis B Gawtry, Secretary

There are nearly thirty-five thousand fewer horses in service in New York than there were two years ago, according to a report just issued by the Sanitary Bureau of the Department of Health. These figures in view of the fact that they cover the war period, might be taken as an indication of a very marked business retrenchment were it not for the fact that the census of motor trucks shows just as decided an increase. Add to this the fact that there are three thousand less stables in the city and it becomes apparent that the horse is very steadily losing ground as a transportation factor and that his retirement is not of temporary character.

In the Spring of 1917 there were 108,036 horses in the five boroughs. Of these 103,125 were in private service while 3,793 were in the city, state, or federal service. To accommodate all these animals there were 10,584 stables. Today there are only 75,740 horses in the five boroughs and the resulting reduction in the number of stables necessary for their housing means that 2,664 buildings have been released for other purposes.

A considerable part of this loss is due to deaths among the animals, with the attendant economic loss. During 1918, 10,288 horses died. The year before the number was 11,507 while in 1912 the number reached a total of 19,163. While a good many of these were of course, replaced by other horses, the fact remains that horses are rapidly growing fewer in city use.

Another aspect of the report bears out the belief that the greater part of the decrease is among those who are making their initial step in motor delivery, for of the total of thirty-five thousand, ten thousand of the falling off is among those who use less than ten horses. In other words the retailer or the merchant who can cover his territory with one or two motor trucks has disposed of from two to ten animals. However, there is a very substantial reduction among the larger stables too.

A case in point, by way of being specific, is that of the Boston Excelsior Company. As described elsewhere in this issue, this company is now finding it possible to do with eight electric trucks, the work which formerly required twenty horses.

For the purpose of increasing the helpfulness of both the Edison Monthly and The Edison Directory, the two are now published together. The Monthly endeavors to describe electricity in its various commercial, industrial and domestic uses while the purpose of the Directory as fully set forth in the announcement at the front of the book is to present a complete list of the manufacturers or selling agents of appliances.

In resuming publication after a suspension during the war period the Edison Monthly thus hopes to be of service both to those who use and those who market electricity and electrical wares.

The Passing of the Private Plant

A GENERAL survey of electrical supply in New York City under post-war conditions brings the investigator face to face with the remarkable fact that during 1917 and 1918, no less than 135 large buildings abandoned their own private generating plants in favor of light and power from the mains of The New York Edison Company. To many people there has been something contradictory in the claims of the central station to superiority of service, and the fact that there were a, by no means negligible, number of large buildings generating their own electricity. Further examination, however, explains this apparent discrepancy. Of the large buildings maintaining their own generating apparatus, the great majority were erected during the early days of central station service while Thomas A Edison was still at work experimenting on various methods to overcome the difficulties in current-distribution that were then unsolved. Indeed, in those days, no great effort was made to meet the competition afforded by the private plant.

These conditions were further complicated by the fact that structures of that period were provided with hydraulic elevators, the modern electric type now in general use being as yet undreamed of. The elaborate mechanics of the hydraulic lift, representing a very considerable outlay of capital, is not readily "scrapped" in favor of newer machinery, while the engineering staff necessary for the operation of these elevator equipments can readily turn its ability to the care of the generating plant. Thus it will be seen that the existence of private plants installed in such circumstances in no wise disputes the statements of central station advocates as to the advantages of outside supply for large city buildings.

It has generally been considered that the respective merits of these two forms of electric service was a purely commercial affair, one in which the public at large had no interest or concern. John Jones sells plants; Samuel Smith sells central station service; let the best man win and "we should worry." It is only within the past two years, indeed, since this country entered the great European struggle, that the public concern in such a technical matter has become apparent, although this factor has always existed and has been recognized by the men most closely in touch with the situation. That the public at large has not known of, nor concerned itself with the problem is not surprising; conservation of any kind meant little to the American people, conservation of natural resources least of all. We took our coal supply as much for granted as the air we breathed.

The Importance of Conservation

With our entrance into the war, this was changed. First we heard of coal-shortage in European countries, in which we were interested chiefly as it might affect the military situa-

tion, since various experts attributed the reverses of the Italian armies as causally related to the acute coal-shortage there. Next, we were called upon to meet unprecedented demands for production of all kinds; quickly the price of coal began to soar, and in the winter of 1917-1918, we were confronted with such a coal-shortage as this happy-go-lucky country had never before dreamed of.

At that point we began to think in terms of coal and coal-saving, and then non-technical people realized what the central station could do for the country in the matter of conservation. The truth is that a great central station with its immense units, its precision of adjustment and design, and its specialized operation can furnish electricity with a minimum consumption of coal. This is not theory, but an established fact. To what extent, however, this is possible, is seldom realized outside of the engineering profession. During the years of 1917 and 1918, the Waterside Stations of The New York Edison Company saved for this city and for the country at large, hundreds of thousands of tons of coal. To take one department alone, the closing down of the 135 private plants in large buildings already referred to; the coal economy resulting from the change brings about an annual saving estimated at 98,000 tons.

To show how such an economy is effected, let us take as examples two buildings, studying the fuel figures for two years in each case. One, a downtown structure of sixteen stories, devoted to printing and manufacturing, had previously derived its electric supply from a plant of 950 horse-power. For one year, with this plant, it required 6812 tons of coal to operate this building. With Edison Service supplying electricity, there was required but 2307 tons for heating, a gross or apparent coal-saving of 4505 tons or 66% of the previous supply. With the efficiencies of coal-consumption made possible by the great Waterside stations, only

Photographic Bureau of The New York Edison Company

The Big Printing Establishment of the J J Little and Ives Co on East Twenty-fourth Street

Photographic Bureau of The New York Edison Company

The Cunard Line Installation of 5,000 Lamps, 400 Horse-power and 1,000 Amperes for Electric Vehicle Charging is Served by The New York Edison Company

2140 tons were needed to produce the current supplied to the building for light and power, this being a net or actual saving of 2365 tons in the public interest. Nor were the private interests of the building owners adversely affected; on the contrary they profited by the change to the extent of $12,000 during the first year with central station supply.

In a building of another type, a structure largely given over to offices, similar savings are found. This sixteen-story building, facing on Fifth Avenue, had formerly operated a plant of 800 horse-power for electric supply. With the plant, the year's coal demands were 4870 tons; with Edison service, 2064 tons sufficed. The electricity furnished by the Edison Company represented a coal-consumption of 945 tons at the Waterside stations, making a net saving of 1861 tons to the public interest. The owner's benefit is found in a saving of over $11,000 annually.

Another element of public advantage in the substitution of central station service for that of the private plant is less easy to present in figures but is no less real. With the present state of traffic congestion in this city, the public at large is benefited by keeping unnecessary carting off the streets. Considering for the moment only the 135 plants closed-down in 1917 and 1918, central station service did away with the hauling through the streets of about 175,000 tons of coal. Conservatively figured, this 175,000 tons of coal would have made at least 25,000 loads, while ash-removal later would increase this sum to a total of 30,000 vehicular loads.

As has been said, during the war-period, 135 buildings dispensed with their private plants, 63 buildings making the change to Edison service during 1917, while in 1918, seventy-two more buildings followed suit. The installations of these buildings presented a combined capacity of more than 35,000 horse-power; their

195964

combined electric consumption is placed at 26,500,000 kilowatt hours. Among the establishments which have thus stepped into the march of progress are: the Washington Building, 1 Broadway; the Hallenbeck-Hungerford Building, Lafayette and White Streets; the 18-story Citizens National Bank, 320 Broadway; the Aeolian Building on West 42nd Street; the Great Northern Hotel, 118 West 56th Street; the Endicott, Columbus Avenue, 81st and 82nd Streets; the famous Chelsea Piers of the Cunard Steamship Company; the Hotel Gregorian, 42 West 35th Street; the Childs Building, 108-10 West 34th Street; the Wells Building, 18 Broadway; the Southern Pacific, Piers 48-51 N. R.; the Morton Building, 116 Nassau Street; the Chatsworth, Riverside Drive and 72nd Street; the 30 - story World's Tower Building, 110-12 West 40th Street; the Commercial Cable Building, 20 Broad Street; Kops Brothers, Irving Place and 16th Street; the Metropolitan Museum of Art; the Knickerbocker Building, Fifth Avenue and 16th Street; the entire group of manufacturing buildings occupying the block of Hudson, Varick, VanDam and Spring Streets; the Little and Ives printery, 425 East 24th Street; and the DeVinne Press, 395 Lafayette Street.

Photographic Bureau of The New York Edison Company

Aeolian Hall, Another Central Station Convert

Locks Plus

THE development of the door lock, a thing so closely bound up with human advance, shows concretely how far the world today has progressed from the crude simplicity of ancient times. Just what this simplicity meant and how it was modified again and again was told in an article on old-time locks published in this magazine some months ago. The newest phase of the development, one calling on electricity for operation, makes a story that would have read, even fifty years ago, like an exaggerated fancy of Baron Munchausen.

Complicated time-locks reinforced by walls of steel or concrete or a combination of the two have spelt, certainly, a vast improvement over the ponderous locks that guarded the treasure chests of long ago. Such improvement may be said in fact to have kept well apace, perhaps a trifle in the lead of, a very marked advance in the safe-cracker's art. But of late the distraction of the police system due to the war, intensified vigilance at munition factories, and the influx of criminals from bordering countries have caused a wave of crime against which relatively up-to-date methods of protection are by no means proof. Indeed more daring burglaries and hold-ups have taken place in the past few months than in any similar period for many years. It is but natural that electricity should have some part in affording burglary protection, and the new scheme referred to uses it with far reaching results.

The idea is not, strictly speaking, to heighten the effectiveness of the lock itself but to afford the remarkable locks used today on safes and vaults a chance to assert themselves. In other words, it is a lock reinforcement, and as such comes properly under the lock heading.

The scheme provides that the walls of a vault, top, bottom, and all sides, be wired throughout with a network of lead-covered cables operating in

A Bank Vault, Typical of Many, Except that it is Guarded by Electricity

an open and closed circuit, an arrangement calling for a minimum use of current. By this means, protection is given by preventing a section or sections of the concrete walls from being removed at any point. Should such an attempt be made, one or more of the closed circuit wires is sure to be broken, releasing an alarm and causing groups of signals to respond instantly not only on the premises but at any neighboring point that may be selected, such as police or fire stations.

What is equally important, perhaps more important in view of recent developments in the criminal's art, is the fact that this system, known as the Duplex, also sounds an instant alarm in case an attack is made on the walls of the vault with the oxy-acetylene flame. The great publicity given this flame in recent years has been taken full account of by yeggmen who have added it to their already complete equipment, with startling results. In fact, cases have happened where a vault has been successfully "cracked" by this means, with a policeman on post less than half a block away, the robbers, with their compact acetylene torch outfit, melting off the combinations and sinking holes without the need of toilsome and noisy drilling.

The new protection lines the vault door behind the bolt work and locks with a thermostatic steel lining which is connected electrically to the system. This plate gives protection not only against tools and explosives but operates at once when heat is applied. Again, if any attempt is made to enter the vault door by destroying and cutting the steel for an opening through which to trip the locks, an alarm is sounded at once by the action of the thermostatic elements. The system may operate from suitable storage cells located in the vault, or better and more dependable still, on current from the local central station.

At the combination and drawbolts of the vault door are placed contacts controlled by an electric time controller. This arrangement is to prevent any tampering with the door at night and guards against any chance of neglect by the bank to lock the vault door at closing time.

A cabinet fully protected against attack and containing this controller together with testing instruments,

At the Right of the Picture is shown the Big Outdoor Gong, which Alarms the Neighborhood when the Bank is Attacked

Control Board for Five Vaults

controlling switches, annunciators, and an automatic time-alarm cutout is placed inside the vault beyond reach of the burglar. The cutout just referred to controls the current to the vault door connections and is arranged to be set for any time the bank wishes the alarm to sound in case the vault is left open. There is consequently no need of the banker going to the vault to stop the alarm. A signal located in the vault and operated by electrical connections at the drawbolts of the door announces the proper closing of this door.

The general alarm consists of an eighteen inch gong or siren which is enclosed in an electrically protected steel housing and mounted on the bank building. Two electrical movements and one mechanical movement make up this mechanism. The latter operates on a closed circuit, and starts operating the moment an attempt is made to cut the cable running from the gong to the vault, for this cable itself is wired and burglar proof.

A further important feature of the Duplex System is its insurance against daylight hold-ups. The equipment for this purpose consists of the electric gong placed in the banking room, or in an adjoining building, police or fire station. Several ringing stations at various points on the banking room floor and under the teller's and cashier's desks connect with this gong, and are set going by a mere touch of the foot or hand or pressure of the body. A controlling cabinet containing mechanism and batteries is located in the banking room under lock and key. In this instance, however, as in the case of vault protection, batteries which have naturally to be watched and renewed are not as reliable as current from the central station.

During the past decade lock experts have invented mechanical bank locks that are infallible. Although these devices themselves are immune from attack, nothing would prevent an opening elsewhere through the door if the walls were not protected by this network system of wiring which sounds the alarm as soon as the would-be safe-opener begins to tamper with the door.

While members of the safe-cracking profession with their proverbial "gay cats" are not on hand at the moment, there is in all likelihood not one who could not testify to the uncanny completeness of the equipments described.

Excelsior

FROM a trial installation of three vehicles, the electric truck equipment of the Boston Excelsior Company has grown to a fleet of eight. And this within a period of less than four years. Incidentally the coming of the electric has marked the passing of the horse, these eight vehicles doing the work formerly performed by twenty animals.

"We have never regretted the change" was the reply of one of the company directors, when asked how the new trucks were performing.

The Boston Excelsior Company has a big warehouse with a garage adjoining, at Twenty-ninth Street and Eleventh Avenue. As the name indicates, the company deals principally in excelsior, delivering the product in bales to customers in all parts of the city. In some instances, whole truck loads are delivered to a single customer. In others, the deliveries are made a bale at a time to customers scattered along a day's route. Both types of work are handled by the new trucks, as well as the heavy hauling between the river-front freight stations and the city warehouses. For this work the trucks are equipped with the usual rack bodies. The vehicles, all of which were built by the Atlantic Company, are of two, three and one-half, and five ton capacity.

While no close record of operating costs has been kept and no accurate comparison can be made between the expense of maintaining a stable of horses for the work and the present motor truck costs, the average cost

Photographic Bureau of The New York Edison Company

The Charging-Board and Repair Bench in the Electric Vehicle Garage of the Boston Excelsior Company

Photographic Bureau of The New York Edison Company

Part of the Fleet of Eight Electric Trucks Used by the Boston Excelsior Company

of deliveries is figured at $2 a ton, a sum which is considerably less than it would amount to to do the same with horses.

Most of the deliveries are within the city limits although frequent trips are made into the suburbs. It is these occasional long trips that demonstrate another great advantage of motor delivery. Horses could not make such trips—electrics do it as part of their regular day's work. The greatest distance, thus far, covered by one of these vehicles in one day, is fifty-four miles. This was done by a two ton truck. Another of the trucks made a morning trip to Newark, New Jersey, returned to the warehouse at noon, picked up another load and delivered it in East New York and returned to the warehouse late in the afternoon.

In the matter of repairs these vehicles have shown great economy, for the total repair costs have not exceeded $100 a year per car. This does not include tire or battery renewals; those items along with wages, insurance and overhead being included in the $2 per ton delivery cost already referred to.

To Atlantic City by Electric

MAKING the 124.6 mile trip in five hours and thirty-nine minutes, a passenger car of the Baker R and L Corporation bettered by eighteen minutes, the old electric vehicle record between New York and Atlantic City. The old record, made by a car of the same type was five hours and fifty-seven minutes. It had stood since 1917.

The trip was made under the auspices of the New York Electric Vehicle Association and in conjunction with the annual convention of the National Electric Light Association which was held at the resort in May. Herbert Mould was the official observer, while DePeyster Stagg drove the car.

The speedometer reading showed an actual mileage of 124.6 miles. The current consumption averaged 2.6 ampere hours per mile and the speed averaged 22½ miles per hour in the face of a strong sea breeze. The trip was made by way of Staten Island and Lakewood, with a midday stop at the latter place for luncheon and a boost for the storage batteries.

The Home Assistant

THE role of prophet is one that should never lightly be undertaken, the aspirant always remembering that the chances are usually against his forecast being borne out by future events. This being true, it is with considerable pride that THE EDISON MONTHLY calls to mind several of its prophecies with regard to the future of domestic service. As far back as 1912, it presaged the passing of the untrained maid-of-all-work, and the coming of the new skilled worker, the household assistant.

Wild enough those ventures sounded in 1912. But the conditions of last winter's labor market have justified the prophet. Any home-keeper will agree that the faithful old household worker of a generation ago, no longer exists; furthermore, the harried home-keeper scanning the "help wanted" advertisements has met, with horrid surprise such a demand as this, "Wanted, for an eight hour day, as household assistants, several young women to eat and sleep out. 12-15 dollars."

So great has been the demand for houseworkers, so scant the supply, that the most conservative institution, the home, has seen the writing on the wall. Furthermore, that expert institution in the affairs of women, The Young Women's Christian Association, is organizing a course preparing to train young women as professional household assistants. To be quite frank, the eight-hour household assistant is not what the average woman wants. In the nature of the case, housework is something extending over at least twelve hours a day; consequently the good, old-fashioned sun-up till lamp-light worker is what we want. The answer is that whether or not we want it, we aren't going to be able to get it, so the home philosopher will begin to recognize the new order of things and make the best of it.

The purpose of this article is to show how the coming eight-hour a day worker can be made to fit into the scheme of the average city household where one maid is kept (theoretically). Generally when the eight-hour day for domestic work is discussed before a group of women, they immediately say, "what a fine idea for the wealthy, but of course it would never do for us." The eight-hour a day worker is like a new piece of machinery in a factory

Photographic Bureau of The New York Edison Company

An Hour with the Vacuum Cleaner, Gives the Apartment a Light but Thorough Cleaning

Photographic Bureau of The New York Edison Company

She Puts the Breakfast Cereal in the Electric Fireless Cooker

and, like a factory, the work has to be reorganized to meet the situation. If the machinery is worth it, the business man does not object.

The new piece of machinery offered by this plan is the skilled household worker in place of the unskilled. Furthermore, by the terms of her contract, she agrees to do anything she is told, during her eight hours, with one exception—heavy washing. That is, the trained household assistant comes with a certificate of her ability and readiness to cook, to wait on table, to sew, to care for children, and to do light cleaning and fine laundry-work. Also, through training she has learned to do things systematically and quickly, so that in eight hours she can accomplish as much work as her untrained predecessor did in twelve.

To take a sample day. The usual period for the eight-hour a day worker in the small household is from noon until eight at night. She comes, having had a late breakfast previous to leaving home, and brings with her a box-luncheon. Arriving at twelve in the average home where the man-of-the-family is away during the day, the household assistant gets a simple luncheon, and does the dishes. This takes her till two o'clock. Then in one hour, with the electric vacuum cleaner, she gives the apartment a light but thorough cleaning. From three to five, she takes the children out to the park; at five o'clock, she begins the preparation of the dinner, which is served at 6:30. Following this, she does the dishes, puts the breakfast cereal in the electric fireless cooker, sets the table for breakfast and departs. On another day, instead of an hour's cleaning, she does the week's darning and mending, or if there are no young children to care for, cleans fine lace or embroidery.

On examining into the possibilities of the eight-hour household assistant, it becomes evident that the successful working out of the scheme is greatly furthered by the use of electric labor-saving devices. To begin with, it is obvious that with an eight-hour worker, the lady-of-the-house gets the breakfast. This is no longer the bugbear that it was in the days when it meant the lighting of a coal-range. Now, the cereal is removed from the fireless cooker, coffee, eggs or bacon are cooked electrically at the table, where the toast is also made. The home-keeper is neither obliged to dash back and forth into the kitchen, nor to serve "everything at once," with a suspicion of chill upon the cereal, and undeniable frost upon the eggs.

The same appliances that enable the home-keeper to do her own work if necessary, also enable the household assistant to accomplish as much as possible in the eight-hour day. With an electric vacuum cleaner, the labor of sweeping and dusting becomes

almost negligible, as a time-consuming task. An hour a day, three times a week, with a vacuum cleaner will keep the average apartment in shining cleanliness. Dusting is automatically reduced to a minimum, because when the dust has been removed from rugs and carpets, there is little left to settle upon the furniture. This is one of the statements which experience proves is true, but which only users of vacuum cleaners will believe.

If the household is equipped with an electric washing apparatus, much of the laundry becomes light work, and so falls within the province of the household assistant. Ironing of fine pieces is not heavy toil, but it is time-consuming, and can be greatly expedited by the use of an electric flat-iron. It is really conservative to estimate that laundry-work which takes a day and a half ordinarily, can be done in a day if an electric flat-iron is provided.

To meet the needs of families who cannot afford to pay the full $15 a week, the part-time worker offers her services. The Young Women's Christian Association has received many applications from women who either feel the pinch of present high prices or wish to make their spare time remunerative. These women cannot give the full eight-hour day, but are available for four or five hours, as the case may be. Many a household could do excellently well, with a skilled worker coming in at three or four o'clock, doing an hour or more of light cleaning or sewing, getting the dinner and starting the breakfast. It is believed that this type of worker will appeal to many families of moderate means or to the households of professional women.

Photographic Bureau of The New York Edison Company

Ironing can be Greatly Expedited by the Use of an Electric Flat-iron

On considering the question of the coming household assistant, one naturally wonders from what ranks of labor she will be recruited. According to Miss White, who is organizing this department for the Ballard School of the Young Women's Christian Association, the household assistant will not be a former "domestic servant;" "as much as possible, we want young women who have had some business experience," was the surprising reply. One is told that there are many young women in offices who would prefer to do housework,—"if."

And here are some of the ifs. She must be called Miss or Mrs.; there must be no interference with her life outside the eight-hours; she must have her two weeks' vacation in the

summer, and one day a week. On her part, she contracts to become a trained household worker, to do pleasantly whatever she is asked, to wear a uniform in the house, and to work overtime on reasonable request, at stated overtime rates.

In short, the attempt to train and develop an ever enlarging group of household assistants, is an effort to raise the entire business of housekeeping to the dignity of a profession into which any ambitious young woman can enter as she would into office work. Between what the average household wants in the way of service, and what the average girl will consider an attractive field of labor, there is at present a wide gap.

To face this issue squarely, to solve the various intricate problems as they arise, and to train the household workers of the future is the task before the advocates of the eight-hour home-assistant.

The Decision

Three little lights in an argument got
As to which had the greatest prestige of the lot;
They decided to put it to popular vote—
Judge Night gave a hearing to each ere he wrote.
Said the candle, " 'Tis plain I've the right of old age,"
"You've got little on me," puffed the lamp, in a rage.
Miss Incandescent smiled blandly the while
And calmly awaited her counsel's denial.
Mr. Wind was her lawyer, and when he blew in
The others blew out—and so ended the din.

Hale McBride.

Photographic Bureau of The New York Edison Company

Breakfast is Cooked at the Table, Before the Home Assistant Begins her Eight Hour Day

Photographic Bureau of The New York Edison Company

Part of the Electric Illumination in the Welcome to Home Coming Troops

Manufacturers and Agents (Continued from Page 4)

Motors

Inspection—Maintenance—Repairs (Cont'd)

Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Weiderman Geo Elec Co—35-37 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—120 Broadway
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114-118 Liberty St
Cutter F B Co—50 Church St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241-3 Canal St
Klein & Co—208 Centre St
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Elec Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101-103 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co Inc The—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Montclair Refrigerating Corp—Woolworth Bldg
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242-252 East 122d St

Electric Signs

Bofinger Bros—146 East 42d St
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L—560 Seventh Ave
Universal Elec Stage Ltg Co—240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 Church St
Betts & Betts Corporation—511 W 42d St
Reynolds Elec Co—1123 Broadway

Specialties

Alpha Elec Co Inc—116-18 W 29th St
Aplin B J—30 Church St
Benjamin Electric Mfg Co—243-247 W 17th St
Bonnell Elec Mfg Co—192 Chambers St
Bromley-Merseles Mfg Co—1328 Broadway
Brown Wm S Electric Co—3 W 29th St
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co—114 Liberty St
Cutler-Hammer Mfg Co The—50 Church St
Fox Electrical Corporation—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Fulton-Bell Co—451 Greenwich St
Gotham Electrical Co—36 W 37th St
Guarantee Elec Products Co—110-112 W 40th St
Howe Scale Co of N Y The—341 Broadway
Kirkman Eng Corporation—237 Lafayette St
Mercantile Adv Co—17 Battery Place
Minneapolis Heat Regulator Co—Room 1735 Grand Central Terminal Bldg
Ohio Electric Co Inc—145 West 45th St
Pittsburgh Electric Spec Co—396-398 Bway
Shelton Electric Co—16 E 42d St
Universal Elec Stage Lightg Co—240 W 50th St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Waterbury-Wallace Co—100 Lafayette St.
White J H Mfg Co—111 No 3d St Brooklyn

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Switch Co—4-6 White St
Benjamin Electric Mfg Co—243-247 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St

Manufacturers and Agents (Concluded)

Switch and Distributing Boards (Concluded)

General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—116-18 W 29th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Associate Co (Sturtevant)—21 E 40th St
Duntley Products Sales Co—295 Fifth Ave
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Guarantee Elec Products Co—110-112 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Lightolier Company—569-571 Broadway
Muenzen Specialty Co—131 W 42d St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396-398 Bway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Western Elec Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—116-18 W 29th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110-112 W 40th St
Hartt & Morison—780 Sixth Ave
Jorgensen John—114 Liberty St
Lightolier Company—569-571 Broadway
Lindstrom Smith, Co—41 Union Square
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—116 W 29th St (Blue Bird)
Apex Electric Home Appliance Co—457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Domestic Laundry Equipment—224 W 26th St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Guarantee Elec Products Co—110-112 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers) —11 E 42d St
Hurley Machine Co—147-157 W 42d St
Lightolier Co—569-571 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Northwestern Electric Equipment Co (Geyser) —35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)— 119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Co—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Manhattan

Alpha Elec Co Inc—116-118 W 29th St
Baily Elec Supply Co—18 Warren St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Fox Electrical Corporation—119 W 42d St
Fullerton Electric Co—15 W 20th St
Goetz A Edgar Inc—55 Barclay St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Killoch David Co—57 Murray St
Latham E B & Co—4 Murray St
Leahy John J—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co The—7 W 29th St
Ostrander W R & Co—371 Broadway
Public Electrical Supply House—62 Essex St
Royal-Eastern Elec Sup Co—114 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Christopher St 41—W Buch
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—L C MacNutt Co
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35-37—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143-145—H C Griffin & Co Inc
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 92—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1170—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 8th St 48—American Pressing Iron Co
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 348—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker National Fire Prevention Engineering Company
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—Nichols & Judson
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co

Wiring and Installation Contractors (Concluded)

Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 882—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147-49—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 81st St 229—Edward Zenker
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
Park Ave 1630—Wimpie Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 152d St 835—J Lowe
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
East 201st St 261—Leonard B Fox
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Co Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East Fordham Road 11½— S W Mills
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 9—Yonkers Electric Light & Power Co
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on 3d cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barrow St 25—Jos Torre
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beaver St 45—Welborne & Co
Beekman St 96—Naumer Electric Co
Bleecker St 122—A Epstein
Broad St 41—Industrial Supply Co
Broad St 68—Broad Equip Co of N Y
Broad St 88—S F Haddad
Broad St 122—Stewart-Dickson & Co Inc
Broadway 1—William Vautin
Broadway 50—J E Mezger
Broadway 120—Leslie-Stevens Co Inc
Broadway 149—Singer Bldg 3215 Read-Dresser Eng Co Inc
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Electric Co
Broadway 302—Harry Weinstock
Broadway 320—Standard Electricians & Mill Wrights
Broadway 335—Monowatt Elec Import Co
Broadway 383—A Edelman
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broadway 621—McCrory Stores Corp
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 224—United Cutlery Co
Canal St 257—J & C J Ernest
Canal St 261—Stransky Mfg Co
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 392—Welsbach Gas Lamp Co
Canal St 417—The Maintenance Co
Canal St 479—W E Tranter
Carmine St 7 & 9—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 196—Max Zuckman
Centre St 231—Worth Electric Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Chatham Square 2—Louis Abrahams
Church St 30—H P Copeland
Church St 30—P A McGuire
Church St 30—Wm Braun
Church St 50—F W Collins
Church St 50—J K Hooper
Church St 50—Standard Drug Co
Church & Vesey Sts—Metropolitan Hardware Co
Cooper Square 10—Philip Addison
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin
Cortlandt St 39—W S Broadhurst
Cortlandt St 39—Russell G Cory
Cortlandt St 42—Terminal Cycle & Sporting Goods Co
Cortlandt St 70—W R Pabst
Cortlandt St 84—Bleyle Electric Co
Dey St 48—John J Leahy
Dey St 62—A E Gelling
Dey St 65—Bowman-Edson Co
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 62—William E Williams
Front St 124—Charles Davidson
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—H D Perlman
Fulton St 110—Marlen Hdwe Co
Fulton St 176—F H McAllister-Keller Co Inc
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Fulton St 248—Williams & Wells Co
Gold St 13—Anderson & McKenzie
Grand St 162—Adam Kalb
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—L C MacNutt Co
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 185—Weint Electric Co
Greenwich St 255—G M Ross
Greenwich St 460—A F Beckman & Co
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
John St 84—Alfred Whiteley Inc
John St 99—T Frederick Jackson Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 95—John W Hooley
Liberty St 114—Equipment Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Chas W Osburg Co
Liberty St 123—Smith-Meeker Eng Co
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 91—Weber & Jones
Maiden Lane 100—Grab-Gamsby Hdwe Co Inc
Mercer St 15—Mogul Elec Sup & Cont Co
Mott St 44—Quong King Long Co
Murray St 4—E B Latham & Co
Murray St 23—Stanley & Patterson
Murray St 37-39—Fensterer & Ruhe
Murray St 43—Conlan Electric Co

Authorized Mazda Lamp Agents (Continued)

Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 140—Reid-Yeomans & Cubit Inc
Nassau St 145—N Y Supply & Inspection Co
Nassau St 154—Minato Honga Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 15—United Adjustment Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 116—Kelting Electric Co
Pearl St 39—Commercial Construction Co
Prince St 57—Manufacturers' Equipment Exchange Co
Prince St 143—Patten Brown Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 69—DeVincent Casale
Sixth Ave 81—H & F Metzinger
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Spring St 60—J N Fannelly
State St 5—George K Webster
Sullivan St 29—Jasper Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143-5—H C Griffin & Co
Vesey St 45—Casey Naser Electric Co
Vesey St 59—L Gabler & Sons
Vestry St 35—Northwestern Electric Equip Co
Wall St 82—L R Wood
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 97—Wm E Glaeser
Washington St 81—Rector Electric Co
Water St 52—Lund & Miller
West Broadway 176—O M Matzen
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 487—J Ash Sewing Machine Co
West Broadway 490—X-L Machine & Elec Co
West Broadway 491—Acme Machine & Motor Co
West Broadway 506—Shotwell Elec Co
West Broadway 511—Title Electric Co
West Broadway 566—Davis Freeman
West Houston St 20—Stein Manufacturing Co
West St 90—Peters & Peters Inc
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
Whitehall St 15—Searrade Corp
Whitehall St 26—Reilly & Guy
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
William St 165—Beatrice Electric Co
Wooster St 33—Paul Silverstone
Avenue D 2—The New Interboro Electric Co
Avenue D 53—Barnett Rosenberg

East Side District

Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Sup Co
Bowery 147—N Hirschfeld
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 242—Liberty Lighting Supply Co Inc
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 280—Cosmopolitan Gas & Elec Supply Co Inc
Bowery 283—Dulberger Sup Co
Bowery 304—Samuel Frost
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—National Gas & Elec Co
Broome St 327—N Y Gas Light Co
Chrystie St 155—M Powell
Delancey St 25—Wm H Blank
Delancey St 188—Louis Boritz
Division St 87—Soffen Brothers
Division St 133 Lincoln Cont Co
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 104-6—J Reimer
East Houston St 170—D Stein
East Houston St 266—Square Elec Sup Co
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 235—N Rosenbaum
Essex St 62—Public Elec Supply House
Forsyth St 96—J Cohen
Forsyth St 182—Ben Goldberg
Ludlow St 69—Chas I Silberman
Ludlow St 144—Louis Yuster
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Rivington St 265—M Franzblau
Second Ave 24—Crawford Elec Cont Co Inc
Second Ave 73—J Brown

Irving Place District

Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1133—Elec'l Consumers Adjustment Corp
Broadway 1133—N Y C Lamp Service
Broadway 1155—Empire Electric Co
Broadway 1161—Antler Elec Co
Broadway 1170—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 10th St 30—Spero & Cohen
East 10th St 79—D Berkowitz
East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 11th St 112—Ohm Electric Wks Inc
East 13th St 2—Edison Lamp Service Co Inc
East 13th St 34—A L Todd
East 14th St 7—William Landau

Authorized Mazda Lamp Agents (Continued)

East 14th St 10—Acme Electric Co
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 17th St 3—Fruhling Art Light Co
East 17th St 18—Metropolitan Elec Lamp Co
East 17th St 102—Chas Cordts
East 18th St 509—Leo Procknick
East 19th St 8—Biglin & Moffatt
East 22nd St 20—Schultz Electric Co
East 23 St 24—I T Johnson Co Inc
East 23rd St 131—Chas Bessler & Co
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 23rd St 315—Hudson Electric Eng Co
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 34—S K Kline
East 28th St 37—William Fredericks
East 28th St 114—Burkart Electric Co
East 28th St 114—Inter City Lamp Service
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 11—Abingdon Pharmacy
Eighth Ave 16—A Hauser
Eighth Ave 49—Nathan Garber
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 334—Wm Purdy
Fifth Ave 75—H M Walter
Fifth Ave 111—Riley Optical Inst Co Inc
Fifth Ave 175—E B Stott & Co
First Ave 312—A Koppeman
Fourth Ave 17th St—W G Cornell & Co
Fourth Ave 101—Starobin Elec Sup Co
Fourth Ave 108—I Gluck
Fourth Ave 110—B H Turecan & Co
Fourth Ave 121—Borough Elec Co
Fourth Ave 125—A Wangerin
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Irving Place 30—Gudeman & Co
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 130—Goldberg & Rubenstein
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Second Ave 449—George W Jarchow
Seventh Ave 219—Subway Hardware Co
Seventh Ave 228—Guarantee Elec & Pressing Iron Co
Seventh Ave 296—B Adler
Sixth Ave 143—M A Karp
Sixth Ave 164—McGeady & Mabs
Sixth Ave 182—Geo H Bingler
Sixth Ave 190—Sibley-Pitman Elec Corp
Sixth Ave 379—Sandback-Gilbert
Sixth Ave 394—Wm Miller
Sixth Ave 402—Herald Lamp Service
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 431—Siegel & Rittner
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—Stromberg & Levin
Tenth Ave 239—I P Frink Inc
Tenth Ave 246—Robert F Hitchman
Third Ave 162—Reese Brothers
Third Ave 182—Metz-Solars & Co
Third Ave 184—Henry Green
Third Ave 308—Hull Grippen & Co
Third Ave 415—Reese Brothers
Union Sq 10—J Menkes Elec Co
University Place 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 54—Insel & Wagner
West 13th St 107—Dale Lt Fix Co
West 13th St 408—Bullock Manufacturing Co
West 14th St 114—J L Vernick
West 14th St 232—Wm H Crary
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 16th St 4—Central Elec Supply Co
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 21—Rambam & Rosenberg
West 17th St 48—Beidner Elec Co
West 17th St 105—Manhattan Elec Ltg Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 227—Lighting Eng Service Co
West 19th St 270—Warren Electric Co
West 20th St 15—F W L Fullerton Inc
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 27—Import Sales Co
West 20th St 162—N D Lyons
West 21st St 4—Janover Electric Co
West 21st St 117—Morris Gika
West 22d St 137—Fauerbach Elec Co
West 23rd St 147—Chelsea Elec Motor Rep Co
West 23rd St 172—Atlas Elec Cont Co
West 23rd St 235—Eastman Kodak Co.
West 23rd St 241/43—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Geo Ehrlich
West 24th St 105—Samuel Vogel
West 25th St 117—Eastern Elec Contracting Co
West 26th St 101—Pruyer Electric Co
West 26th St 130—Metropolitan Elec Protective Co
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 103—Fred Kissel
West 28th St 213—Reis & O'Donovan Inc

Authorized Mazda Lamp Agents (Continued)

Forty-second Street District

Broadway 1271—Wm J McKenna
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1409—A & A Electric Co
Broadway 1416—Elec Service Eng Co
Broadway 1492 —Autler Lamp Co
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
Broadway 1717—N Y & Brooklyn Auto Sup Co
Broadway 1743—Times Square Auto Sup Co
Broadway 1789—Auto Supply Co
East 29th St 34—Albin Gustafson Co
East 30th St 2—Simpson Electric Co
East 31st St 8 10—Sussman & Sussman
East 32nd St 19—R E Leve
East 34th St 144—S W Elec Co
East 40th St 16—Sterling Bronze Co
East 40th St 2 —Comstock Associate Co Inc
East 40th St 2 Young & Egan Inc
East 42nd St 46—Bofinger Bros
East 42nd St 236—Hoffman & Fischbach
East 44th St 157—G E Walter
East 45th St 70—Edwards Electrical Construction Co
East 45th St 70—J Livingston & Co
East 45th St 70—Peet & Powers Inc
East 47th St 3—Walsh Elec Sup. Co.
East 47th St 7—Black & Boyd Mfg Co
East 52nd St 9—White Allom & Co
East 57th St 2 —Morris Lev & Co
East 59th St 30—K R Schullstrom
East 59th St 7—Stanley Ruth Co
East 59th St 204—R C Bankow
East 59th St 22 —American Ltg Fix Co
East 59th St 224—S Green
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 712—G Walker & Sons
Eighth Ave 882—Nichols & Judson
Eighth Ave 903—Chas Weinz
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 347—B & B Sign Co
Fifth Ave 4 7 Underwood & Underwood Inc
Fifth Ave 489—Heath & Kantack
Fifth Ave 503—A W Haire
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 6 1—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Grand Central Terminal Concourse—Fred Kraft
Lexington Ave 186—Robert E Denike Inc
Lexington Ave 33 Herz Pharmacy Co
Lexington Ave 405—Nathan C Solomon
Lexington Ave 589—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Madison Ave & 59th St—Electric Store Co
Madison Ave 361—Tiffany Studios
Madison Ave 415—Reeder Bros
Madison Ave 418—Edward J Dewey Co
Ninth Ave 314—G C Bowers
Ninth Ave 604—Geo Unsold
Ninth Ave 630—Nathan Marks
Ninth Ave 658—J K Oats Sons
Ninth Ave 767—Isidor Brand
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Seventh Ave 182—M Miller
Seventh Ave 515—Van Beuren & N Y Bill Posting Co
Seventh Ave 560—L L Strauss
Seventh Ave 729—Boyer-Gordon Drug Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Seventh Ave 843—Reuben R Smith
Sixth Ave & 57th St Acker Merrall & Condit Co
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 493—Louis Doushkess
Sixth Ave 496—Seigel & Mittenthal
Sixth Ave 636—Fred B Zender
Sixth Ave 657—Office Supply Co
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 947—John W Flint
Sixth Ave 982—Ed Nicholson
Sixth Ave 1039—Mt Morris Auto Sup Sta
Tenth Ave 578—Charles F Dunker
Tenth Ave 672—J G Gloecker
Tenth Ave 755—H F Lutters
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 543—Paul J Gillman
Third Ave 605—B Elec & Hardware Co
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—Metropolitan Elec Co
Third Ave 766—A Roffner
Third Ave 767—Otto Fuchs

Authorized Mazda Lamp Agents (Continued)

Third Ave 918—Sidney Frey
Third Ave 959—Rabinowitz & Kluger
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Co
West 29th St 116—Alpha Electric Co Inc
West 29th St 162—Jaffer Electric Co
West 30th St 56—Henry Drezler
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—J B McCoy & Son
West 30th St 114—Tucker Elec Const Co
West 30th St 208—Kissell Co
West 31st St 14—Charles Campbell
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Co
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 32nd St 110—C G Willoughby
West 32nd St 130—W F Irish Co
West 33rd St 38—Superior Hotel Sup Co
West 33rd St 221—E J Elec Installation Co
West 34th St 20—Harry Alexander Inc
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 34th St 110—Nimis & Nimis Inc
West 34th St 210—Harry B Sommers
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 166—F A Engberry
West 36th St 19—R C Heather Co
West 36th St 126—Metropolitan Elec Sup Co
West 37th St 36—Gotham Electric Co
West 37th St 54—Roeser & Heidelberger Inc
West 37th St 102—Jerome Electric Co
West 38th St 47—S W Jawitz Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—A H Howard
West 40th St 105—Lord Electric Co
West 40th St 105—Publicity Clock Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 232—Paramount Elec Const Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 325—Knickerbocker Chandelier & Elec Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 48th St 6—Duplexalite Corp
West 48th St 244—M Schweiger & Co Inc
West 48th St 415—Fisch Elec Sign Co
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240—Univ Electric Stage Lt Co
West 52nd St. 258—W E Pruden Hdwe Co.
West 52nd St 304—Rialto Elec Stage Ltg Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 74th St 204—Jos Rappaport
East 77th St 149—L Segalbaum
East 84th St 158—Gabriel Erdos
East 86th St 341—L S Metzger
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1576—Joseph Corak
First Ave 1678—Frederick Barton
First Ave 1756—Bayer C H
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1398—M Behm
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Co
Park Ave 588—T J McGunnigle
Park Ave. 1086—S Littman
Park Ave 1124—John B Schramm
Park Ave 1222—Modern Health Pharmacy
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1838—P Stein
Second Ave 2033—Rosenthal & Rosen
Third Ave 1011—J M Kohlmeier
Third Ave 1055—F Gretzer's Sons
Third Ave 1165—Jas Gear

Authorized Mazda Lamp Agents (Continued)

Third Ave 1195—Harry Goldman
Third Ave 1285—A J Block
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal nc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1460—Circle Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1501—M Eberhart & Son Co
Third Ave 1545—N W Altman Co.
Third Ave 1636—Benjamin Phillips
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Co
Amsterdam Ave & 100th St—Louis E Michel
Amsterdam Ave 97—Max Weiss
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 161—I J Branigan
Amsterdam Ave 227—Samuel Greenberg
Amsterdam Ave 326/8—I H Simpson Hardware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 405—J M Cunningham
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Co
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 618—J Schirackson
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—B Murphy
Amsterdam Ave 94 —Julius C Belmonte
Amsterdam Ave 9 6—Morningside Supply Shop
Amsterdam Ave 1084—F W Fehling
Amsterdam Ave 1224—Adolph G Seiler
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 129 D H Nathanson
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1463—B S Lutz
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Co
Broadway & 113th St—Acker Merrall & Condit Co
Broadway 1834—Trop Specialties Co
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1939—Bull DuRoy Elec Co
Broadway 1987—King Tire Co
Broadway 2035—S A Friedman
Broadway 2104—Modern Ltg Co
Broadway 2142—C B Montagriff
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Auto Co
Broadway 2286—P J Mulcahy
Broadway 2299—M J Kane Inc
Broadway 2304—J F Driscoll
Broadway 2305—Levy Bros
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2415—E G Zelner
Broadway 24 ½—Acker Merrall & Condit Co
Broadway 2480—Phil J Shough
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2 21—John E Thomas
Broadway 2769—J D Meyer
Broadway 2869—Sam Ferber
Broadway 2875— Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3181—Dorb Drug Co
Broadway 4929—G N Russell
Columbus Ave 2—Eugene J Ward
Columbus Ave 144—E May Inc
Columbus Ave 189—B & C Electric Co
Columbus Ave 196—Columbus Elec Co
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 307—Harry A Flagge
Columbus Ave 32 M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 549—Hoffman & Elias
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—A C Patterson & Son
Columbus Ave 592—R C Spencer
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 795—David Robinson
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 96 —Charles Gutkin
Columbus Ave 1008—LeMar Sup Store
East 112th St 173—Behl Electric Co
East 115th St 58—M S Rosenfeld Bros
East 116th St 12—J Alpert
East 116th St 204—Empire Gas & Elec Fix Co
East 125th St 17-19—F J Rush
Eighth Ave 2090—R M McCutcheon & Co
Eighth Ave 2245—E Lederer & Co

Authorized Mazda Lamp Agents (Continued)

Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2371—West End Bee Hive
Eighth Ave 2441—A E Jackson
Fifth Ave 1410—S J Eisner
Fifth Ave 1442—Julius Adler
Hancock Place 3—National Combination Gas & Elec Fix Co
Lenox Ave 22—Morris Perla
Lenox Ave 151—Louis Saphier
Lenox Ave 394—Samuel Lichenstein
Lenox Ave 403—Lenox Elec Co
Lenox Ave 468—Frank & Meyers
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1889—Gristede Bros Inc
Second Ave 2250—Samuel Kapner
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2021—Jacob L Kramer
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 114th St—H A Tomashoff Inc
St Nicholas Ave 1422—Manhattan Lp Service Co
Third Ave 2098—Iron Spec Co
Third Ave 2352—Chas Mann & Co
West End Ave 165—F W Astarita
West 61st St 16—Asch & Co Inc
West 66th St 161—Leo Strus
West 72nd St 172—John B Campbell
West 72nd St 176—Kaufman & Burkert
West 82nd St 221—Gertler Elec Co
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 125th St 48—Irving Broff
West 125th St 125—I Davega, Jr
West 125th St 125—L Davega Inc
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—E A Briggs
West 125th St 215—M J Heller Elec Co
West 125th St 414—Kennedy & Klarer
West 126th St 301—C O Alberga & Co

Bronx (Melrose District)

Brook Ave 172—S Dworkin
Brook Ave 520—M Goldman
Courtlandt Ave 554—A M Vignali
Courtlandt Ave 606—E Kraemer
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 358—Weber Supply Co
East 155th St 392—Joseph Mancusi
East 161st St 615—J F Smith
East 162nd St 860—Unit Electric Co
East 163rd St 736—Sales Electric Co Inc
East 163rd St 965—Isidor Schohan
East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—Max Finkelstein
East 167th St 460—M Scharzler
East 169th St 535—B Weiss Electric Co
East 169th St 557—Bethlehem Hardware Co
East 169th St 638—Max Berminer
East 170th St 163—Edison Contr & Lamp Co
Elton Ave 673—J Landy
Forest Ave 947—Ed Gorodess
Freeman St 879—L Drescher
Freeman St 958—Joseph Berger
Hunts Point Ave 895—Max Maged
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 950—Louis Gladstein
Longwood Ave 972—Adolph Greenblat
Melrose Ave 558—Hub Elec Supply Co
Melrose Ave 776—Ed O Steinoch
Park Ave 4206—Hugh J Casey
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mayler Elec Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1074—Rapid Elec Cont Co
So Boulevard 1308—Louis I Waldman
So Boulevard 1319—Jacob Katz
So Boulevard 1327—A Dressner
St Ann's Ave 342—S Wishnevsky
Teller Ave 899—George Venney
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2718—A L Biltchick
Third Ave 2739—Special Univ Motor Co
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Gurland
Third Ave 3000—A A Busch
Third Ave 3151—We Lektrify U Corp
Third Ave 3277—W D Saunders
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3461—Herman Sontag
Third Ave 4239—Northern Gas & Electric Fix Co
Tiffany St 1115—Elias Austin
Union Ave 767—Henry Cohen
Washington Ave 937-1037—M Regelson
Washington Ave 1226—Leopold Altman
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 819—Blatt Brothers

Authorized Mazda Lamp Agents (Concluded)

Westchester Ave 847—Arrow Electric Cont Co
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Co
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias
Willis Ave 478—M P Weintraub

Bronx (Tremont District)

Boston Road 1304—Mayo Lighting Fix Co
Boston Road 2017—H Von Hadeln
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co
East Fordham Road 338—H & M Bloom
East Fordham Road 374—Louis Grossman
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 447—Shipman Stationary Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 755—Becker Bros
East 180th St 554—A Feig
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 184th St 531—George Kohn
East 201st St 261—Leonard B Fox
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2423—J Wollak
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
So Boulevard 1881—Louis Flatau
Stebbins Ave 1142—Walshin Bros
Third Ave 3710—Adolf Birnbaum
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2004—J M Boles
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 231st St 165—Louis Grossman

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway District—424 Broadway
East Side District—124 Essex St
Irving Place District—10 Irving Place
Forty-second Street District—124 West 42d St
Eighty-sixth Street District—151 East 86th St
One Hundred and Twenty-fifth Street District—13-15 East 125th St
Bronx (Melrose District)—362 East 149th St
Bronx (Tremont District)—Tremont and Monterey Aves

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

C-Commercial I—Industrial P—Passenger

Anderson Electric Car Co of N Y (Detroit Electric)—Central Park West at 62d St (C & P)
Atlantic Elec Vehicle Co—30 Church St Suite 422 (C)
Automatic Transportation Co—258 B'way (I)
Baker R & L New York Corporation The—Central Park West at 62d St (P)
Buda Co of Chicago—30 Church St (I)
Comm'l Truck Co of America—30 E 42d St (C)
Couple Gear Co—(Clarence L Smith Co Agents) —544 W 30th St (C)
Cowan Truck Co—51 East 42d Street (I)
Electro Coach Corp—50 Church St (Busses)
Elwell-Parker Electric Co (Lucian C & G W Brown Agts)—50 Church St (I)
General Vehicle (Walker Vehicle Co.) — Grand Central Terminal Room 3709 (C)
Healey & Co—Broadway & 51st St (P)
Hoagland-Thayer Inc—300 Washington Street Newark N J (I)
Hunt Co C W Inc—501 Fifth Ave (I)
Koppel Industrial Car & Equipment Co—30 Church St (I)
Lansden Co Inc The—Flatbush & Nostrand Aves Brooklyn (C)
Lansing Co—492 Broome St (I)
Mercury Mfg Co—(Truck & Tractor Co Agents) 25 Church St
Walker Vehicle Co—Grand Central Terminal Room 3709 (C) (General Vehicle)
Ward Motor Vehicle Co—5736 Grand Central Terminal Bldg also Mt Vernon N Y (C)

Charging Apparatus

Allen-Bradley Co—50 Church St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Electric Products Co The—30 Church St
General Electric Co—120 Broadway
Industrial Controller Co— 120 Broadway
Lincoln Electric Co—149 Broadway
Northwestern Electric Co The—1457 B'way
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Charging Apparatus for Ignition, Starting and Lighting Batteries

Allen-Bradley Co—50 Church St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St,
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
General Electric Co—120 Broadway
Lincoln Electric Co—149 Broadway
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Electric Co—110 West 40th St
Westinghouse Electric & Manufacturing Co—165 Broadway

Electric Garages

Acker Merrall & Condit Co—536 W 46th St (C)
Edison Storage Battery Co—247 W 35th St (C)
Exide Battery Depots Inc
East Side Garage—141 E 25th St (C)
North Side Garage—West End Ave & 64th St (C)
West Side Garage—527 W 23d St (C)
International Motor Co—252 W 64 St (C)
Electric Garage The—Central Park West & 62d St (P)
474 West 130th Street Garage Inc The—474 W 130th St (C)
Willett's Garage—15 E 58th St (P)
Wright's Garage Inc—18 Audubon Place (P)

Manufacturers and Agents (Continued)

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St

Buffers—Polishers

Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Co—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Fox Electric Corp (Rapid Dish Washer)—119 W 42d St
Phillipson Emil—110 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf)—303-305 Fifth Avenue
Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Co—396 B'way (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burdett-Rowntree Mfg Co—1515 Willow Ave Hoboken N J
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
General Elevator Co—29 Broadway
Gurney Elevator Co—300 Eighth Ave—(Gould & Vanderback)

Manufacturers and Agents (Continued)

Elevators—Dumbwaiters (Concluded)

Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—114 Liberty St
Allis-Chalmers Mfg Co—50 Church St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Co—151 Fifth Ave & 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Roeser & Heidelberger Inc—54 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Waterbury Wallace Co—100 Lafayette St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—114 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way

Globes—Reflectors

Adams Bagnall Elec Co—114 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St

Manufacturers and Agents (Continued)

Globes—Reflectors (Concluded)

Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Dover Mfg Co—30 Church St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark Messrs—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom, Smith Co—41 Union Square
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Western Elec Co—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper-Hewitt Elec Co—730 Grand Street Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
C & C Electric & Mfg Co—110 W 40th St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Imperial Elec Co—253 Broadway
Lincoln Electric Co—149 Broadway
MechanicalApplianceCo(Watson)—39Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wesche B A Electric Co—110 W 40th St
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const &Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hamnill John—55 Ann St
Harlem Electric Co—6 E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St

Lists Continued on Page 53

August 1919

Corner Wall and Water Streets 1774

VOLUME II

CONTENTS

NUMBER 2

The Edison Directory

	Page
Department Stores	33
Manufacturers and Agents	33-34-35-36-53-54
Wiring and Installation Contractors	55-56
Authorized Mazda Lamp Agents	57-64
Edison District Offices with map	Inside Cover (Back)

The Edison Monthly

Editorial	38
The Sun and Edison Service	39
Electrical Show to Be Resumed	41
Current Verse	41
A New Truck Garage	42
Bulgul by Motor	44
June 20th at Waterside	46
The Law of the Light (Verse)	46
Commonplace Magic (Verse)	48
Refrigeration by Motor	50

Copyright 1919, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Joseph Williams, Treasurer
Lewis B Gawtry, Secretary

The close-down of the generating plant in the new building of the Emigrant Industrial Savings Bank, together with the abandonment of the plant in the old Stewart Building makes the block on Chambers Street lying east of Broadway and north of the City Hall a 100% Edison customer.

There are three big buildings on the block—the bank, the Stewart Building and the printing establishment of the M B Brown Company. The building occupied by the Brown Company has always been Edison served, but the other two operated plants. In the case of the Stewart Building the decision to change was reached when the property was acquired by the publishers of The Sun, this paper having been a user of Central Station electrical supply for more than twenty years. In the case of the bank, the change was decided upon only after a careful engineering study had demonstrated beyond question the economy and efficiency of Central Station supply.

New York wants its light when it wants it. That it is always there, simply at the turn of a switch, is taken as a matter of course. Even during the notable storm of June 20th when the change from daylight to dark came with startling suddenness, there was probably little thought as to what lay behind it all, when some two million or more lamps were turned on.

Yet back at the power house men were laboring with speed and skill to fire the boilers, start the generators and to be ready for whatever demand the city might make. How well they labored is seen in the fact that The New York Edison Company was able to carry the largest load in its history. That it was a heavier load than there was any reason to expect, bigger even than the record demand of last December seems to have made no difference. Indeed it is this meeting of the unexpected that justifies the confidence which New York puts in its electric lighting system.

Electric trucks in brewery service are proving fully capable of adapting themselves to the changed conditions caused by the Prohibition Law. While in most cases brewers are holding their equipment pending the settlement of the question, a good many are keeping their trucks in public service both for the purpose of operating the vehicles and to pay in part for their upkeep. Breweries which have changed their output of course use the old trucks for delivering the new products; others are renting their vehicles from day to day and in some cases the vehicles are being sold.

In the latter group a sale of considerable interest is that recently made by the Anheuser Busch Company, by which five vehicles have changed from the delivery of beer and kindred products to the delivery of — water. These trucks were purchased by the Crystal Spring Water Company and are now part of the fleet of eight vehicles used by that concern.

The Sun and Edison Service

THE contract for electrical supply between the publishers of The Sun and The New York Edison Company, recently signed, is the third that has been negotiated between the newspaper and the Central Station during the past twenty-one years. It means that when this historic journal starts its presses in its new home in the equally famous Stewart Building at Broadway and Chambers Street, an electrical installation of some 1,200 horsepower in motors and more than 2,000 lamps will receive current from this Company.

The Sun, as readers of The Edison Monthly know, is by no means a recent convert to the Central Station idea. As long ago as 1898 the publishers of the paper were convinced that the private plant could not render the service that an important newspaper required. At that time The Sun, which seems to link its own interesting career with buildings of almost equal interest, was in the famous red brick structure at Park Row and Frankfort Street. Even at that early date electricity was extensively used in the printing business but The Sun drove its presses with power from a private plant until the first Edison contract was signed in 1898.

This building was acquired by The Sun in 1867 and was occupied by the

Photograph by The New York Edison Company

The Future Will Add Many Interesting Chapters to the Historic Past When The Sun Establishes Itself In the Famous Stewart Building at Broadway and Chambers Street

publishers for nearly fifty years. With the removal of the paper, the building gave way to a modern structure.

In 1915 the paper leased space in the building of the American Tract Society on Nassau Street. By this time there was no question as to the relative merits of private plant and Central Station Service. In fact the lease was not signed until the owners of the building agreed to take out the existing generating plant. And now, with the acquisition of the Stewart Building and the signing of the third Edison contract The Sun once more has shown what it thinks of Central Station Service.

Through the records of the relations between The Sun and The Edison Company may be traced many interesting facts in the development of electric lighting, not only as it relates to the newspaper but to the whole of New York's varied commercial and industrial activities. For one thing it shows in a very convincing way the reduction in the cost of electric lighting through the improvement of lamps and the lowering of rates.

With the contract taken in 1898 closing down the plant in the old brick building The Sun became the Company's largest customer, and considerable attention was given to the installation. Among other things, a test was made of twelve of the lamps then in use. This showed that the average candlepower per lamp was 13.7, with a consumption of 4.11 watts per candlepower. A comparison with present-day efficiencies of about 1 watt per candle is significant of the progress in the lighting art.

The rate schedule then in effect had a maximum price of 10c. per kilowatt hour for light and 10c. a horsepower hour for power, with discounts dependent on the consumption and average use of the equipment. The minimum price was

Photograph by courtesy of The Sun

The Old Home of the Sun on Park Row.

5c. per kilowatt hour for light and 4c. per horsepower hour for power. Taking into consideration both the improvements in lamp efficiency and the reduction in rates, The Sun is now securing eight times as much light for each dollar expended as it did in the old days. Owing to the growth of the paper, and to the extended use of electrical apparatus, and notwithstanding the improved efficiency, three times as much current is now being used.

When The Sun moved to the American Tract Society building, that building had a complete generating plant and hydraulic elevators, but after fully considering the matter Edison Service was adopted and the elevators changed to electric at an expense of about $100,000.

In moving to the Stewart Building the present presses will be used and much additional equipment will be installed. Included is the electrification of six hydraulic elevators and the installation of electric pumps. The present melting pots on the linotype machines will also be replaced by electric equipment.

The extensive use of Central Station service by The Sun is typical of all the New York papers. The World, The Evening World, Times, American, The Journal, Globe, Mail, Evening Post, all use Edison Service exclusively, while The Tribune and The Herald, although still maintaining their own generating plants have breakdown connections with the Edison System.

The Stewart Building, erected in the late '60's, served originally as a department store, later was divided into shops and offices, and during the war was used as headquarters by the Commandant of the Third Naval District.

Electrical Show to be Resumed

THE Electrical Exposition and Motor Show is to be resumed this year, opening at the Grand Central Palace on Sept. 24th and continuing until Oct. 4th. This will be the first show since 1917, last year's display having been omitted because of the war.

With the country's rapid adjustment to a peace basis, this year's exposition takes added importance, for never has electricity played so important a part in industrial and commercial effort and home life.

Indicating something of the interest in the Show of this year, more than forty per cent of the available space was taken provisionally before assurances could be obtained that the building would be vacated by the Federal Government. It will be recalled that the Grand Central Palace was used by the War Department as Debarkation Hospital No. 5, and it was not until spring that the last of the wounded soldiers had been transferred to other institutions.

Current Verse

When Volta chased the Northern
  Lights
And captured them from Arctic Nights,
Then Watt and Ampere both agreed
To try his captives out for speed.

They had a sense that it was time
To save this Earth from smoke and
  grime,
And then, and only then was spun
The web by which this World is run.

And now you wander where you may
To find night brighter than the day,
No matter how remote the spot,
They're at your call, per kilowatt.

A. L. Bolton

A New Truck Garage

WITH the opening recently of the new Edison Storage Battery Garage, housing facilities for electric vehicles in New York were very materially increased. Designed especially to serve the merchant who operates single cars or fleets of the smaller size, this new service station will not only care for existing installations but by reason of the accommodations it offers will be a factor in increasing the number of electrics in service in the City.

The garage is at 247 West 35th Street. It is a three story and basement structure with facilities for caring for 110 trucks. By taking advantage of the service the garage offers, a truck owner has no cares or responsibilities beyond the actual operation of his vehicle in his own daily delivery service. The garage service includes housing, washing and polishing, oiling and greasing, inspection and charging of the battery. For this service the rates range from $43 a month to $85 a month according to the size of the vehicle. For the same service but without battery charging the rates are from $25 to $35. Under this second form of service the owner pays for such charging as he may require at the rate of 5c. per kilowatt hour. In neither case does the garage company undertake to make repairs to the vehicle or battery except on a written order from the owner.

The charging equipment consists of two sets, one connecting with forty-nine outlets serving the first floor, while a seven outlet panel provides charging facilities for the basement. With these fifty-six outlets the garage is able to charge the batteries of double that number of cars each night. Besides a fully equipped electrically driven machine shop, there is a battery room, an oil room, special industrial trucks for transferring batteries and a steam pump with a pressure of 60 pounds for cleaning

Photograph by The New York Edison Company

The New Garage of the Edison Storage Battery Co

Photograph by The New York Edison Company

Equipment for Caring for the Batteries Adds Greatly to the Service Facilities of this Garage

batteries. A six ton electric elevator connects the upper floors with the street level and assures the rapid handling of incoming and outgoing vehicles.

A rule, which goes a long way toward assuring the protection of cars in the building, prohibits chauffeurs driving beyond the threshold. Returning vehicles are met at the door by garage employees who relieve the driver and take the car to its assigned floor space. Cars leaving the garage are brought to the door at the hour specified and are there turned over to the driver ready for the day's work. Thus, by restricting all movement of cars within the building to responsible garage employees, the risk of damage from collision is practically eliminated.

Not all users of electric trucks have space available to do their own garaging. Very often when an electric has been purchased to take the place of a team of horses, the old stable room is needed for other purposes. Or perhaps the owner had kept his horses in a public livery stable. Sometimes it is this lack of such garaging facilities that stands in the way of the purchase of the first electric. With accommodations such as those offered by the various public garages, this drawback is removed.

That such garage service is popular is seen in the demands made upon the three stations of the Exide Storage Battery Company which were described some time since in this magazine. By making use of the service such as is offered by the Edison or Exide Garages or of any one of the several other stations, users of electric trucks are relieved of all care and responsibility so far as the upkeep of their cars is concerned.

All the electrical requirements of the garage are supplied by The New York Edison Co. The installation includes

Photograph by The New York Edison Company

Charging Outlets are Conveniently Located.

250 lamps and motors, totaling 25 horsepower, for elevators and pumps and other building equipment. In addition to this, provision is made for the supply of nearly 8000 amperes for charging storage batteries through the fifty-six outlets already referred to.

Bulgul by Motor

IF BEEFSTEAK follows close on the trail of the Englishman and chewing gum in the wake of the American, the same may be said of bulgul and the Syrian—and, for that matter, the Armenian, the Turk, the Bulgar, and the Greek. Bulgul by the way is not, as the sound might indicate, an avenging genius or even one of the more agreeable geniuses that are supposed to haunt the Euphrates country, but just prosaic, cracked wheat. However, life here for near-Orientals a third the way around the world from home would be mighty prosaic without it.

If the reader has happened into any of the several Armenian restaurants scattered over New York—and the same is worth while—he will remember the inevitable wheat *pilaf*, a hot cereal that went along with the meat. This meat itself more often than not was breaded with wheat crumbs and, in the case of the chopped varieties, the wheat was mixed with the meat particles. All this, of course, was bulgul, Simon-pure wheat, a staple used on the old sod in other ways which, as they say in Syriac, are "too numerous to mention."

But, the reader will wonder, why all this about common, everyday, wheat flour? As a matter of fact, bulgul is not flour, and judging from the scarcity of wheat it has been none too common of late. In fact, Sahadi Brothers down at 84 Washington Street, the leading bulgulizers in the country, were closed down for weeks during the war shortage and only recently opened up again. The mixture, the cereal—whatever one may call it—pours out at the end of

a long and electrical process in a consistency too coarse for flour and even for meal. It is bulgul, nothing more nor less, ready to be shipped hither and yon about the country wherever Mediterranean appetites demand Mediterranean recompense.

The raw grain as it arrives is dumped into an enormous steaming drum where the grain is thoroughly cooked. Superfluous moisture is drawn out of the mass first by air-suction exhaust fans. A second drum or series of drums circulates cooled air through the steamed kernels until these have gotten all the sensations of a turkish bath.

The "shelling out" comes in this case when the cooked and dried particles are run into a circular trough where a heavy stone wheel relieves them of their outer husk. In the old-country method, the horse-power made use of teeters around on four legs dragging a beam to which the wheel is fixed. But here an Edison motor that squats in a near-by corner not only keeps the husker going but drives away at a grinding device into which the husked wheat is run.

The whole thing is quite simple, simpler even than the decidedly simple methods over there at the end of the Mediterranean. By means of a few motors working in a single loft more bulgul is steamed, cooled, husked and ground and with far fewer Whoa's and Gee-haws than an entire village could turn out, working in night shifts, which is all very nice for 700,000 or so Asia Minorites who for the time being are over here a long way from home.

Photograph by The New York Edison Company

The Motor Driven Huskers in the Oriental Grocery Establishment of Sahadi Brothers. The Same Motor Serves to Operate the Grinding Machine in an Opposite Corner.

June 20th at Waterside

IT is not often that a public utility company has its claim to dependability of service put to such a severe test as that which tried the Waterside Stations of The New York Edison Company on the afternoon of June 20th. This was the day on which a summer thunderstorm coming up in mid-afternoon enveloped the city in darkness equal to that of nine o'clock, with the consequent turning on of hundreds of thousands of lights.

This increased use of current raised the demands on the generating station from approximately 250,000 horse-power to nearly 425,000 horse-power. This enormous total while quite enough in itself to prove the mettle of any station brought with it the added burden of suddenness. That is, it involved a race against time to get the boilers and generators in operation in time to meet the darkness that the approaching storm would bring. In fact the change from normal to the peak came within less than an hour. The accompanying diagram shows clearly the sharp rise in the use of current during the emergency period. Such a condition was wholly unprecedented. Even in the winter when, because of shorter days, the use of current is naturally higher, the peak has never passed the 400,000 mark.

The added load on June 20 was largely a lighting load. The one thought uppermost in every mind at quarter-past four was the darkness and the need of light and consequently some two million or more lamps were turned on at almost the same instant. The peak thus not only included the usual day time use of current by New York's hundreds of motor-driven factories and office buildings but also a large part of the night lighting load that normally would not come on until after dark.

Fortunately, Waterside had received advance warning of the approaching storm. The wireless weather observer had made its announcement some time before and the generators were ready for whatever demand might be made. At that time though there was nothing to indicate just how great this was to be.

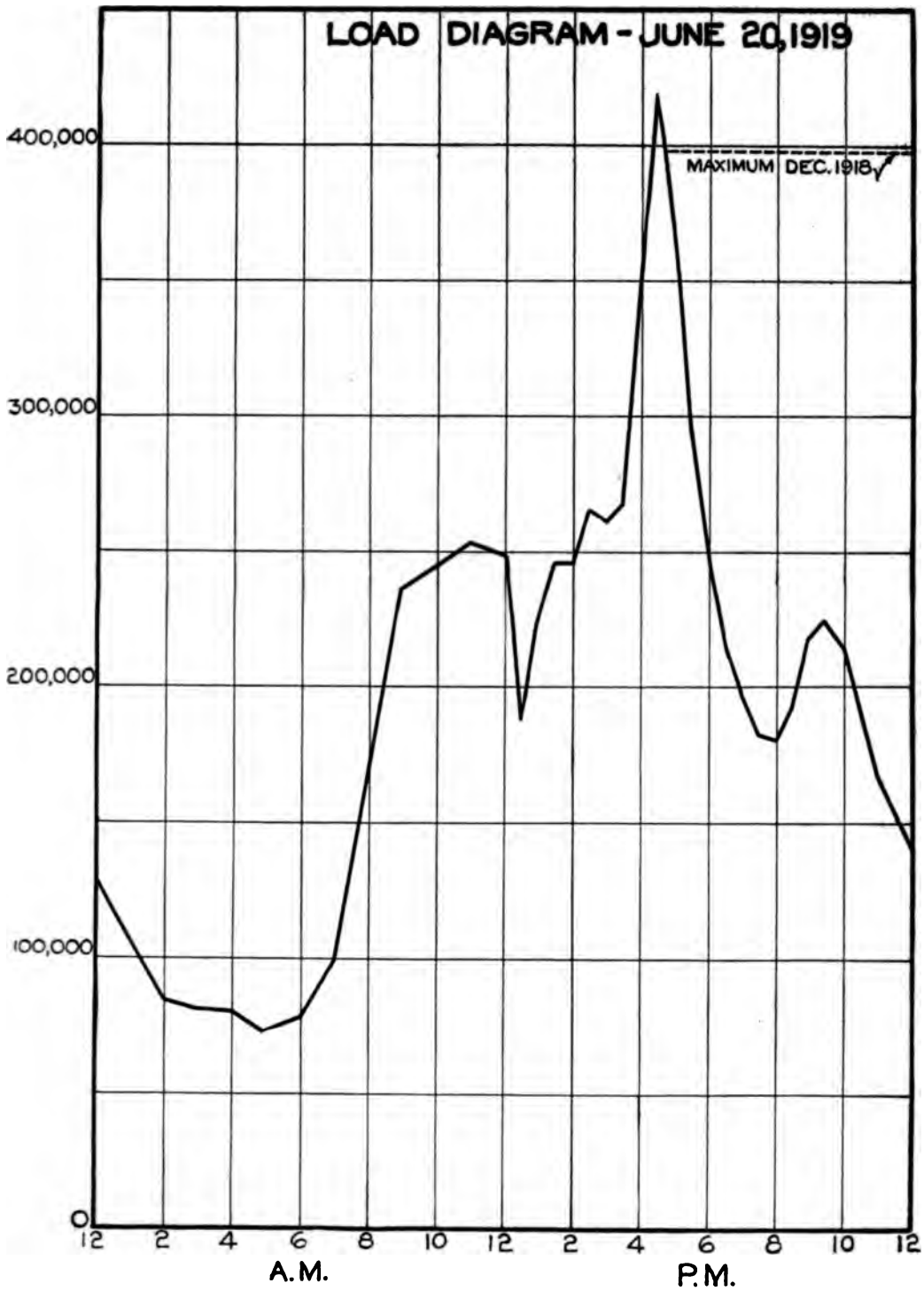
The Law of the Light

The Law of the Light demands:
That back of the livid glow,
Back of the sheen and show,
Back of the arc's white flow,
Men labor with brain and hands

The Law of the Light requires:
That, back of its easy course,
Back in the parent source,
Men baffle the lines of force
With armature, switch, and wires

The Law of the Light is staid;
The goal of the Law is Pow'r;
But back of the gleaming tow'r,
Apart in the night's still hour
The price of the Law is paid

Roscoe Gilmore Stott



The Load in Horse-power Carried by The New York Edison Company on June 20.

Commonplace Magic

Press the button—the light's aglow
—Simple and commonplace, there's no doubt,
And yet to bring this thing about
Men have harnessed the streams that flow,
Delved for copper and dug for coal,
Given body and brain and soul
To battling nature and circumstance
For the great blind cause of the True Romance.

In laboratory and humming shop
  In dusky study and murky mine,
Men pore and labor without a stop,
  Invent, demolish, destroy, design;
Scientists test and search and try,
  Workmen sweat in the furnace glare,
While under the vaulting arch of sky
  Others practice a magic there;
They bind the world in a mesh of wire,
  With flood and tempest and cold they fight,
That you may sit by your cosy fire
  Press a button—and have your light!

Berton Braley

Decoration by C. B. Falls

Refrigeration by Motor

IT IS a rather curious fact that of all the departments of electrical endeavor, in refrigeration alone has popular demand anticipated the actual production of necessary machinery. From the time when, in 1884, electric fans cooled the fevered brows of New York's summer workers, the general public has had an abiding faith that in some way electricity would be an agency of coolness and summer comfort.

Nor was this hope very long delayed, for, among the earlier motor applications of electricity was its use in connection with cold storage and refrigeration. Cold storage for the preservation of furs and woolen goods was developed in 1894 at Washington, D. C., as the result of experimental work of the Department of Agriculture. Soon afterwards, electricity was adopted for refrigeration purposes, so that by 1901 and 1902 installations of this kind began to be noticed as part of the new business of The New York Edison Company. Of recent years electric refrigeration in commercial plants has grown by leaps and bounds; thus, the census of 1910 credits New York with 37 ice-manufacturing establishments. Of these, twelve are now electrically operated and eight are being similarly equipped at the present time. Some of these have installations reaching nearly 2,000 horsepower, employing motors of four hundred horse-power capacity. Apart from these huge ice-making plants are numerous establishments for the cold storage of food products, furs, rugs, carpets and woolen goods and innumerable refrigerating plants in hotels and restaurants, all operated by electricity.

Electric refrigeration for domestic purposes, however, has been somewhat slower in development since, from the nature of the case, the manufacturers were forced to produce a perfect machine from the start—that is, an automatic and reliable machine requiring unskilled attention only. Thus, in 1901, the general manager of one of the largest refrigerator manufacturing companies wrote to The New York Edison Company in a rather pessimistic vein concerning the possibilities of a small-sized electric refrigerator to be run by the servant-girl. "We may say that the conviction of the regular ice-machine builders is that refrigerating machines cannot be successfully operated commercially when of such small dimensions," the chief objection being that they would need to "be visited every day or very frequently by a competent mechanic to look after them." This, remember, was eighteen years ago.

The Beginning of Domestic Refrigeration

Nevertheless, it was about this time that the first semi-domestic refrigerating equipment was connected to the mains of The New York Edison Company. Humorously, this first installation did not lighten the cares of tired housewives but was made in an eight-story bachelor apartment house on East 48th Street. The machine was not of the household size—that being still in the future—but a large refrigerated store-room was provided for the chef and individual boxes were placed in the apartments of each

of the happy bachelors, all being supplied from the same machine. Needless to say, many improvements have been made since then, so that iceless icing has become one of the many comforts held out to prospective dwellers in fashionable apartment houses.

Since that time it has been recognized that the field of successful electric refrigerating for the household is enormous. Although declared practically impossible in 1901, there are to-day no less than thirty different types of household refrigerators claiming to be of such simple adjustments that an average cook or housekeeper can operate them. Of these, some are of recent invention, so that time has not yet tested their wearing qualities; others are exclusively western products as yet unknown in the eastern markets. There are, however, available in New York to-day several desirable types of electric refrigerator for household use which have proved thoroughly satisfactory in service. These include the Isko machine, the Frigidaire, the Frigidor and the refrigerator built by the Electric Refrigerating Co.

Refrigerators of this type really perform a three-fold function. The entire storage-space is kept by a thermostatic control at the correct temperature for the preservation of foods; sufficient ice is actually made for table-use, while the ice-making box serves as a freezer for mousse and other frozen desserts. It seems hardly necessary to speak of the superiority of such an equipment over the

Photograph by The New York Edison Company

A Modern Kitchen Showing, at the Extreme Right, the Electrically Operated Refrigerator

ordinary ice-box. To begin with, all the troubles of ice handling are eliminated, including the heavy lifting and the ice-bills. There are no refrigerator pans and drains to watch; cleanliness becomes much easier; and food materials, especially milk, are much better preserved because of the even temperature maintained and the dry cold. Nor is the operating cost heavy. It is reckoned that from seven to fourteen cents a day will cover the cost of current to operate a machine of quarter-horse-power size at the present New York City rates.

Thus, there can be no doubt that such ice machines do pay for themselves, especially if the labor-saving is expressed in money values. For the summer or suburban residence where ice is difficult to obtain and current is at hand, an electric refrigerator becomes almost a necessity. At present, it must be admitted that the initial cost is still high, yet it is by no means beyond reasonable speculation to suggest that within the next few years the electric refrigerator will be as much a household commonplace as a washing-machine. Less than ten years ago, no one except the wealthy bought vacuum cleaners. Now they are almost as plentiful as electric flatirons. Five years ago, very few except the wealthy had laundry apparatus while now many fairly modest homes have them. How soon refrigerators will follow, no prudent person will venture to prophesy.

The Edison Directory

Photograph by The New York Edison Company

This appliance display catches the eye of the prospective customer not only in the day time but at night when the windows are flooded with electric light, making it conspicuous among the surrounding stores. It is the establishment of C. C. Bohn Electric Company, contractor-dealer, at 820 Sixth Avenue.

Manufacturers and Agents (Continued from Page 36)

Motors

Inspection—Maintenance—Repairs (Cont'd)

Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—120 Broadway
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Cutter F B Co—50 Church St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Klein & Co—208 Centre St
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Elec Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co Inc The—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Montclair Refrigerating Corp—Woolworth Bldg
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St

Signs Electric

Bofinger Bros—146 East 42d St
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L—560 Seventh Ave
Universal Elec Stage Ltg Co (Kliegl Bros)—240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 Church St
Betts & Betts Corporation—511 W 42d St
Reynolds Elec Co—1123 Broadway

Specialties

Bonnell Elec Mfg Co (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers)—1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes)—114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Eng Corporation (Fuses)—237 Lafayette St
Mercantile Adv Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St

Manufacturers and Agents (Concluded)

Switch and Distributing Boards (Concluded)

General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Associate Co (Sturtevant)—21 E 40th St
Duntley Products Sales Co—295 Fifth Ave
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Lightolier Company—569 Broadway
Muenzen Specialty Co—131 W 42d St
Ohio Electric Co Inc—145 W 45th St
Pitts burgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Western Elec Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Jorgensen John—114 Liberty St
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Domestic Laundry Equipment—224 W 26th St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers) —11 E 42d St
Hurley Machine Co—147 W 42d St
Lightolier Co—569 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Northwestern Electric Equipment Co (Geyser) —35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)— 119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Co—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Manhattan

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Fox Electrical Corporation—119 W 42d St
Fullerton Electric Co—15 W 20th St
Goetz A Edgar Inc—55 Barclay St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Killoch David Co—57 Murray St
Latham E B & Co—4 Murray St
Leahy John J—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co The—7 W 29th St
Ostrander W R & Co—371 Broadway
Public Electrical Supply House—62 Essex St
Royal-Eastern Elec Sup Co—114 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—L C MacNutt Co
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 92—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1170—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 8th St 48—American Pressing Iron Co
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 348—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker National Fire Prevention Engineering Company
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—Nichols & Judson
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co

Wiring and Installation Contractors (Concluded)

Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 81st St 229—Edward Zenker
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
Park Ave 1630—Wimpie Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 152d St 835—J Lowe
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
East 201st St 261—Leonard B Fox
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Co Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East Fordham Road 11½— S W Mills
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 9—Yonkers Electric Light & Power Co
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barrow St 25—Jos Torre
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beaver St 45—Welborne & Co
Beekman St 96—Naumer Electric Co
Bleecker St 122—A Epstein
Broad St 41—Industrial Supply Co
Broad St 68—Broad Equip Co of N Y
Broad St 88—S F Haddad
Broad St 122—Stewart-Dickson & Co Inc
Broadway 1—William Vautin
Broadway 120—Leslie-Stevens Co Inc
Broadway 149—Singer Bldg 3215 Read-Dresser Eng Co Inc
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Electric Co
Broadway 302—Harry Weinstock
Broadway 320—Standard Electricians & Mill Wrights
Broadway 335—Monowatt Elec Import Co
Broadway 383—A Edelman
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 224—United Cutlery Co
Canal St 257—J & C J Ernest
Canal St 261—Stransky Mfg Co
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 392—Welsbach Gas Lamp Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 196—Max Zuckman
Centre St 231—Worth Electric Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Chatham Square 2—Louis Abrahams
Church St 30—Wm Braun
Church St 30—H P Copeland
Church St 30—P A McGuire
Church St 50—F W Collins
Church St 50—J K Hooper
Church St 50—Standard Drug Co
Church & Vesey Sts—Metropolitan Hardware Co
Cooper Square 10—Philip Addison
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin
Cortlandt St 39—W S Broadhurst
Cortlandt St 39—Russell G Cory
Cortlandt St 42—Terminal Cycle & Sporting Goods Co
Cortlandt St 70—W R Pabst
Cortlandt St 84—Bleyle Electric Co
Dey St 48—John J Leahy
Dey St 62—A E Gelling
Dey St 65—Bowman-Edson Co
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 62—William E Williams
Front St 124—Charles Davidson
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—H D Perlman
Fulton St 110—Marlen Hdwe Co
Fulton St 176—F H McAllister-Keller Co Inc
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Fulton St 248—Williams & Wells Co
Gold St 13—Anderson & McKenzie
Grand St 162—Adam Kalb
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—L C MacNutt Co
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 185—Weint Electric Co
Greenwich St 255—G M Ross
Greenwich St 460—A F Beckman & Co
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
John St 84—Alfred Whiteley Inc
John St 99—T Frederick Jackson Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 95—John W Hooley
Liberty St 114—Equipment Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Chas W Osburg Co
Liberty St 123—Smith-Meeker Eng Co
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 91—Weber & Jones
Maiden Lane 100—Grab-Gamsby Hdwe Co Inc
Mercer St 15—Mogul Elec Sup & Cont Co
Mott St 44—Quong King Long Co
Murray St 4—E B Latham & Co
Murray St 23—Stanley & Patterson
Murray St 37—Fensterer & Ruhe
Murray St 43—Conlan Electric Co

Authorized Mazda Lamp Agents (Continued)

Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 140—Reid-Yeomans & Cubit Inc
Nassau St 145—N Y Supply & Inspection Co
Nassau St 154—Minato Honga Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 15—United Adjustment Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 116—Kelting Electric Co
Pearl St 39—Commercial Construction Co
Prince St 57—Manufacturers' Equipment Exchange Co
Prince St 143—Patten Brown Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 69—DeVincent Casale
Sixth Ave 81—H & F Metzinger
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Spring St 60—J N Fannelly
State St 5—George K Webster
Sullivan St 29—Jasper Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Vesey St 45—Casey Naser Electric Co
Vesey St 59—L Gabler & Sons
Vestry St 35—Northwestern Electric Equip Co
Wall St 82—L R Wood
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 97—Wm E Glaeser
Washington St 81—Rector Electric Co
Water St 52—Lund & Miller
West Broadway 176—O M Matzen
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 487—J Ash Sewing Machine Co
West Broadway 490—X-L Machine & Elec Co
West Broadway 491—Acme Machine & Motor Co
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West Houston St 20—Stein Manufacturing Co
West St 90—Peters & Peters Inc
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
Whitehall St 26—Reilly & Guy
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
William St 165—Beatrice Electric Co
Wooster St 33—Paul Silverstone

East Side District

Avenue D 2—The New Interboro Electric Co
Avenue D 53—Barnett Rosenberg
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Sup Co
Bowery 147—N Hirschfeld
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 242—Liberty Lighting Supply Co Inc
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 280—Cosmopolitan Gas & Elec Supply Co Inc
Bowery 283—Dulberger Sup Co
Bowery 304—Samuel Frost
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—National Gas & Elec Co
Broome St 327—N Y Gas Light Co
Chrystie St 155—M Powell
Delancey St 25—Wm H Blank
Delancey St 188—Louis Boritz
Division St 87—Soffen Brothers
Division St 133 Lincoln Cont Co
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 104-6—J Reimer
East Houston St 170—D Stein
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 235—N Rosenbaum
Essex St 62—Public Elec Supply House
Forsyth St 96—J Cohen
Forsyth St. 182—Ben Goldberg
Ludlow St 69—Chas I Silberman
Ludlow St 144—Louis Yuster
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Rivington St 265—M Franzblau
Second Ave 24—Crawford Elec Cont Co Inc
Second Ave 73—J Brown

Irving Place District

Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1133—Elec'l Consumers Adjustment Corp
Broadway 1133—N Y C Lamp Service
Broadway 1155—Empire Electric Co
Broadway 1161—Antler Elec Co
Broadway 1170—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 10th St 30—Spero & Cohen
East 10th St 79—D Berkowitz
East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 11th St 112—Ohm Electric Wks Inc
East 13th St 2—Edison Lamp Service Co Inc
East 13th St 34—A L Todd
East 14th St 7—William Landau

Authorized Mazda Lamp Agents (Continued)

East 14th St 10—Acme Electric Co
East 14th St 9—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 17th St 3—Fruhling Art Light Co
East 17th St 18—Metropolitan Elec Lamp Co
East 17th St 102—Chas Cordts
East 18th St 509—Leo Procknick
East 19th St 8—Biglin & Moffatt
East 22nd St 20—Schultz Electric Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—William Fredericks
East 28th St 114—Burkart Electric Co
East 28th St 114—Inter City Lamp Service
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 6—A Hauser
Eighth Ave 49—Nathan Garber
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 334—Wm Purdy
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
First Ave 312—A Koppeman
Fourth Ave 101—Starobin Elec Sup Co
Fourth Ave 108—I Gluck
Fourth Ave 110—B H Turecan & Co
Fourth Ave 121—Borough Elec Co
Fourth Ave 125—A Wangerin
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 130—Goldberg & Rubenstein
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Seventh Ave 219—Subway Hardware Co
Seventh Ave 228—Guarantee Elec & Pressing Iron Co
Seventh Ave 296—B Adler
Sixth Ave 143—M A Klaff
Sixth Ave 164—McGeady & Mabs
Sixth Ave 182—Geo H Bingler
Sixth Ave 379—Sandback-Gilbert
Sixth Ave 394—Wm Miller
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 431—Siegel & Rittner
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—Stromberg & Levin
Tenth Ave 239—I P Frink Inc
Tenth Ave 246—Robert F Hitchman
Third Ave 182—Metz-Solars & Co
Third Ave 184—Henry Green
Third Ave 308—Hull Grippen & Co
Union Sq 10—J Menkes Elec Co
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 52—Insel & Wagner
West 13th St 107—Dale Lt Fix Co
West 13th St 408—Bullock Manufacturing Co
West 14th St 114—J L Vernick
West 14th St 232—Wm H Crary
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 16th St 4—Central Elec Supply Co
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 21—Rambam & Rosenberg
West 17th St 48—Beidner Elec Co
West 17th St 05—Manhattan Elec Ltg Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 227—Lighting Eng Service Co
West 19th St 270—Warren Electric Co
West 20th St 15—F W L Fullerton Inc
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 27—Import Sales Co
West 21st St 4—Janover Electric Co
West 21st St 17—Morris Gika
West 21st St 162—Chelsea Elec Motor Rep Co
West 22d St 137—Fauerbach Elec Co
West 23rd St 235—Eastman Kodak Co.
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Geo Ehrlich
West 24th St 105—Samuel Vogel
West 25th St 117—Eastern Elec Contracting Co
West 26th St 10 —Pruver Electric Co
West 26th St 130—Metropolitan Elec Protective Co
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Authorized Mazda Lamp Agents (Continued)

Forty-second Street District

Broadway 1400—Allied Eng Co Inc
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1409—A & A Electric Co
Broadway 1416—Elec Service Eng Co
Broadway 1492—Autler Lamp Co
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
Broadway 1717—N Y & Brooklyn Auto Sup Co
Broadway 1743—Times Square Auto Sup Co
Broadway 1789—Auto Supply Co
East 29th St 34—Albin Gustafson Co
East 29th St 41—S K Kline
East 30th St 2—Simpson Electric Co
East 31st St 8 10—Sussman & Sussman
East 32nd St 19—R E Leve
East 34th St 144—S W Elec Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 40th St 21—Young & Egan Inc
East 42nd St 146—Bofinger Bros
East 42nd St 236—Hoffman & Fischbach
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 45th St 70—Peet & Powers Inc
East 47th St 3—Walsh Elec Sup. Co.
East 47th St 17—Black & Boyd Mfg Co
East 52nd St 19—White Allom & Co
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 712—G Walker & Sons
Eighth Ave 882—Nichols & Judson
Eighth Ave 903—Chas Weinz
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 347—B & B Sign Co
Fifth Ave 417—Underwood & Underwood Inc
Fifth Ave 489—Heath & Kantack
Fifth Ave 503—A W Haire
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Grand Central Terminal Concourse—Fred Kraft
Lexington Ave 331—Herz Pharmacy Co
Lexington Ave 589—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Madison Ave & 59th St—Electric Store Co
Madison Ave 361—Tiffany Studios
Madison Ave 415—Reeder Bros
Madison Ave 418—Edward J Dewey Co
Ninth Ave 314—G C Bowers
Ninth Ave 604—Geo Unsold
Ninth Ave 630—Nathan Marks
Ninth Ave 658—J K Oats Sons
Ninth Ave 767—Isidor Brand
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Seventh Ave 182—M Miller
Seventh Ave 515—Van Beuren & N Y Bill Posting Co
Seventh Ave 560—L L Strauss
Seventh Ave 729—Boyer-Gordon Drug Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Seventh Ave 843—Reuben R Smith
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 493—Louis Doushkess
Sixth Ave 496—Seigel & Mittenthal
Sixth Ave 636—Fred B Zender
Sixth Ave 657—Office Supply Co
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 947—John W Flint
Sixth Ave 982—Ed Nicholson
Sixth Ave 1093—Mt Morris Auto Sup Sta
Tenth Ave 578—Charles F Dunker
Tenth Ave 672—J G Gloecker
Tenth Ave 755—H F Lutters
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 605—B Elec & Hardware Co
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co
Third Ave 766—A Roffner
Third Ave 767—Otto Fuchs

Authorized Mazda Lamp Agents (Continued)

Third Ave 918—Sidney Frey
Third Ave 959—Rabinowitz & Kluger
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Co
West 29th St 162—Jaffer Electric Co
West 30th St 56—Henry Drezler
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 151—Alpha Electric Co Inc
West 30th St 208—Kissell Co
West 31st St 14—Charles Campbell
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Co
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 32nd St 130—W F Irish Co
West 33rd St 221—E J Elec Installation Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 34th St 210—Harry B Sommers
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 166—F A Engberry
West 36th St 126—Metropolitan Elec Sup Co
West 37th St 54—Roeser & Heidelberger Inc
West 37th St 102—Jerome Electric Co
West 38th St 47—S W Jawitz Co
West 40th St 105—Publicity Clock Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 232—Paramount Elec Const Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 325—Knickerbocker Chandelier & Elec Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 48th St 6—Duplexalite Corp
West 48th St 244—M Schweiger & Co Inc
West 48th St 415—Fisch Elec Sign Co
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Univ Electric Stage Lt Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 74th St 204—Jos Rappaport
East 77th St 149—L Segalbaum
East 84th St 158—Gabriel Erdos
East 86th St 341—L S Metzger
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1576—Joseph Corak
First Ave 1678—Frederick Barton
First Ave 1756—Bayer C H
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1398—M Behm
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Co
Park Ave 588—T J McGunnigle
Park Ave 1086—S Littman
Park Ave 1124—John B. Schramm
Park Ave 1222—Modern Health Pharmacy
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1838—P Stein
Second Ave 2033—Rosenthal & Rosen
Third Ave 1011—J M Kohlmeier
Third Ave 1055—F Gretzer's Sons
Third Ave 1165—Jas Gear

Authorized Mazda Lamp Agents (Continued)

Third Ave 1195—Harry Goldman
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1460—Circle Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1501—M Eberhart & Son Co
Third Ave 1545—N W Altman Co.
Third Ave 1636—Benjamin Phillips
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Co
Amsterdam Ave 97—Max Weiss
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 326—1 H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Co
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 618—J Schirackson
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—B Murphy
Amsterdam Ave 941—Julius C Belmonte
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Marcus & Klein
Amsterdam Ave 1084—F W Fehling
Amsterdam Ave 1224—Adolph G Seiler
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1293— D H Nathanson
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1463—B S Lutz
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Co
Broadway & 113th St—Acker Merrall & Condit Co
Broadway 1834—Trop Specialties Co
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1939—Bull DuRoy Elec Co
Broadway 1987—King Tire Co
Broadway 2035—S A Friedman
Broadway 2104—Modern Ltg Co
Broadway 2142—C B Montagriff
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Auto Co
Broadway 2286—P J Mulcahy
Broadway 2299—M J Kane Inc
Broadway 2304—J F Driscoll
Broadway 2305—Levy Bros
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3181—Dorb Drug Co
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 144—E May Inc
Columbus Ave 171—N Vincenzi
Columbus Ave 189—B & C Electric Co
Columbus Ave 196—Columbus Elec Co
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—A C Patterson & Son
Columbus Ave 592—R C Spencer
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Sup Store
East 112th St 173—Behl Electric Co
East 115th St 58—M S Rosenfeld Bros
East 116th St 12—J Alpert
East 116th St 204—Empire Gas & Elec Fix Co
East 125th St 17-19—F J Rush
Eighth Ave 2090—R M McCutcheon & Co
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2371—West End Bee Hive
Eighth Ave 2441—A E Jackson
Fifth Ave 1410—S J Eisner
Fifth Ave 1442—Julius Adler
Hancock Place 3—National Combination Gas & Elec Fix Co
Lenox Ave 22—Morris Perla
Lenox Ave 151—Louis Saphier
Lenox Ave 394—Samuel Lichenstein
Lenox Ave 403—Lenox Elec Co

Authorized Mazda Lamp Agents (Continued)

Lenox Ave 468—Frank & Meyers
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1889—Gristede Bros Inc
Second Ave 2250—Samuel Kapner
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2021—Jacob L Kramer
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 114th St—H A Tomashoff Inc
St Nicholas Ave 1422—Manhattan Lp Service Co
Third Ave 2098—Iron Spec Co
Third Ave 2352—Chas Mann & Co
West End Ave 165—F W Astarita
West 61st St 16—Asch & Co Inc
West 66th St 161—Leo Strus
West 72nd St 172—John B Campbell
West 72nd St 176—Kaufman & Burkert
West 82nd St 221—Gertler Elec Co
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 125th St 48—Irving Broff
West 125th St 125—I Davega, Jr
West 125th St 125—L Davega Inc
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—E A Briggs
West 125th St 215—M J Heller Elec Co
West 125th St 414—Kennedy & Klarer
West 126th St 301—C O Alberga & Co

Bronx (Melrose District)

Brook Ave 172—S Dworkin
Brook Ave 520—M Goldman
Courtlandt Ave 554—A M Vignali
Courtlandt Ave 606—E Kraemer
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 358—Weber Supply Co
East 155th St 392—Joseph Mancusi
East 161st St 615—J F Smith
East 162nd St 860—Unit Electric Co
East 163rd St 736—Sales Electric Co Inc
East 163rd St 965—Isidor Schohan
East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—Max Finkelstein
East 167th St 460—M Scharzler
East 169th St 535—B Weiss Electric Co
East 169th St 557—Bethlehem Hardware Co
East 169th St 638—Max Berminer
East 170th St 163—Edison Contr & Lamp Co
Elton Ave 673—J Landy
Forest Ave 947—Ed Gorodess
Freeman St 879—L Drescher
Freeman St 958—Joseph Berger
Hunts Point Ave 895—Max Maged
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 950—Louis Gladstein
Longwood Ave 972—Adolph Greenblat
Melrose Ave 558—Hub Elec Supply Co
Melrose Ave 776—Ed O Steinoch
Park Ave 4206—Hugh J Casey
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mayler Elec Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1074—Rapid Elec Cont Co
So Boulevard 1308—Louis I Waldman
So Boulevard 1319—Jacob Katz
So Boulevard 1327—A Dressner
St Ann's Ave 342—S Wishnevsky
Teller Ave 899—George Venney
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2718—A L Biltchick
Third Ave 2739—Special Univ Motor Co
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Gurland
Third Ave 3000—A A Busch
Third Ave 3151—We Lektrify U Corp
Third Ave 3277—W D Saunders
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3461—Herman Sontag
Third Ave 4239—Northern Gas & Elec Fix Co
Tiffany St 1115—Elias Austin
Union Ave 767—Henry Cohen
Washington Ave 937-1037—M Regelson
Washington Ave 1226—Leopold Altman
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Electric Cont Co
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Co
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias
Willis Ave 478—M P Weintraub

Bronx (Tremont District)

Boston Road 1304—Mayo Lighting Fix Co
Boston Road 2017—H Von Hadeln
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co

Authorized Mazda Lamp Agents (Concluded)

East Fordham Road 338—H & M Bloom
East Fordham Road 374—Louis Grossman
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 447—Shipman Stationary Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 755—Becker Bros
East 180th St 554—A Feig
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 184th St 531—George Kohn
East 201st St 261—Leonard B Fox
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2423—J Wollak
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
So Boulevard 1881—Louis Flatau
Stebbins Ave 1142—Walshin Bros
Third Ave 3710—Adolf Birnbaum
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2004—J M Boles
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 231st St 165—Louis Grossman

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway District—424 Broadway
East Side District—124 Essex St
Irving Place District—10 Irving Place
Forty-second Street District—124 West 42d St
Eighty-sixth Street District—151 East 86th St
One Hundred and Twenty-fifth Street District—15 East 125th St
Bronx (Melrose District)—362 East 149th St
Bronx (Tremont District)—Tremont and Monterey Aves

Photograph by The New York Edison Company

This display of J F Delahant, Electric Sales Corporation, which was opened recently at 2490 Broadway, shows careful planning in the arrangement of electric household appliances. The arched lattice work, taking the place of the usual panel wall between the window and the store, admits inspection of the shop itself, where the same care in the arrangement and exhibition of the stock is found.

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

C-Commercial I—Industrial P—Passenger

Anderson Electric Car Co of N Y (Detroit Electric)—Central Park West at 62d St (C & P)
Atlantic Elec Vehicle Company—30 Church St Suite 422 (C)
Automatic Transportation Co—258 B'way (I)
Baker R & L New York Corporation The—Central Park West at 62d St (P)
Buda Co of Chicago—30 Church St (I)
Comm'l Truck Co of America—405 Lexington Ave (C)
Couple Gear Co—(Clarence L Smith Co Agents) —544 W 30th St (C)
Cowan Truck Co—51 East 42d Street (I)
Electro Coach Corp—50 Church St (Busses)
Elwell-Parker Electric Co (Lucian C & G W Brown Agts)—50 Church St (I)
General Vehicle (Walker Vehicle Co.) — Grand Central Terminal Room 3709 (C)
Healey & Co—245 West 67th St (P)
Hoagland-Thayer Inc—300 Washington Street Newark N J (I)
Hunt Co C W Inc—501 Fifth Ave (I)
Koppel Industrial Car & Equipment Co—30 Church St (I)
Lansden Co Inc The—Flatbush & Nostrand Aves Brooklyn (C)
Lansing Co—492 Broome St (I)
Mercury Mfg Co—(Truck & Tractor Co Agents) 25 Church St
Walker Vehicle Co—Grand Central Terminal Room 3709 (C) (General Vehicle)
Ward Motor Vehicle Co—5736 Grand Central Terminal Bldg also Mt Vernon N Y (C)

Charging Apparatus

Allen-Bradley Co—50 Church St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Milburn Wagon Works, Auto Div (P) Toledo, Ohio
Northwestern Electric Co The—1457 B'way
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Charging Apparatus for Ignition, Starting and Lighting Batteries

Allen-Bradley Co—50 Church St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St,
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Lincoln Electric Co—149 Broadway
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Electric Co—110 West 40th St
Westinghouse Electric & Manufacturing Co—165 Broadway

Electric Garages

Acker Merrall & Condit Co—536 W 46th St (C)
Edison Storage Battery Co—247 W 35th St (C)
Exide Battery Depots Inc
East Side Garage—141 E 25th St (C)
North Side Garage—West End Ave & 64th St (C)
West Side Garage—527 W 23d St (C)
International Motor Co—252 W 64 St (C)
Electric Garage The—Central Park West & 62d St (P)
474 West 130th Street Garage Inc The—474 W 130th St (C)
Willett's Garage—15 E 58th St (P)
Wright's Garage Inc—18 Audubon Place (P)

Manufacturers and Agents (Continued)

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St

Buffers—Polishers

Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Fox Electric Corporation (Rapid Dish Washer)—119 W 42d St
Phillipson Emil—110 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf) —303-305 Fifth Avenue
Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burdett-Rowntree Mfg Co—1515 Willow Ave Hoboken N J
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)

Manufacturers and Agents (Continued)

Elevators—Dumbwaiters (Concluded)

Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—114 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Company—151 Fifth Ave & 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Roeser & Heidelberger Inc—54 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Waterbury Wallace Co—100 Lafayette St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—114 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way

Globes—Reflectors

Adams Bagnall Elec Co—114 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St

Manufacturers and Agents (Continued)

Globes—Reflectors (Concluded)

Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Dover Mfg Co—30 Church St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark Messrs—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom, Smith Co—41 Union Square
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper-Hewitt Elec Co—730 Grand Street Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
C & C Electric & Mfg Co—110 W 40th St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
MechanicalAppliance Co (Watson)—39 Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Motors Co—149 Broadway
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const & Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hamnill John—55 Ann St
Harlem Electric Co—6 E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St

Lists Continued on Page 85

September 1919

New Amsterdam about 1650

VOLUME II

CONTENTS

NUMBER 3

The Edison Directory

	Page
Department Stores	65
Manufacturers and Agents	65-66-67-68-85-86
Wiring and Installation Contractors	84-87-88
Authorized Mazda Lamp Agents	89-96
Edison District Offices with map	Inside Cover (Back)

The Edison Monthly

Editorial	70
A Bank Plant Close-down	71
Autos for the Automat	74
City Hall—Skyscraper	77
Autos at the Electric Show	79
Apropos of Appliances	80
Awakened (Verse)	83

Copyright 1919, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Lewis B Gawtry, Secretary

It has always been felt that once electric appliances had an opportunity to demonstrate their general worth, there could be no question as to their continued use. When once used it was felt that they would not willingly be discontinued.

How far short of the actual truth that feeling was, was very convincingly shown recently when a laundress reporting for the days work in a private home, brought her own electric iron in her hand bag. She used it in her work in her own home, and she was not going to run any risk of being deprived of its labor saving conveniences when she worked out. She was willing to carry its six or more pounds for the sake of the steps she would save in carrying other six pound irons between a stove and ironing board.

With this issue The Edison Monthly presents the first of a series of pictures of New York as our Grand-fathers and Great Grand-fathers knew it. New York in the days before electricity, was a city of low buildings and short distances. Today, it is only here and there that a landmark remains to indicate what the old town must have looked like.

The City Hall, the subject of the present sketch, has remained practically unaltered during the one hundred years or more of its existence. The Park has changed and the old buildings surrounding it have given way to towering skyscrapers, while trolley cars and automobiles have taken places of the old omnibus lines and cabs.

These articles are being prepared by Mr. Henry Collins Brown, the New York historian and the editor of Valentine's Manual of Old New York. The Edison Monthly considers itself fortunate in having this interesting series of articles from this authoritative writer.

Although electric cooking appliances have been used rather extensively in the past, their services have been principally of a supplementary character; the heavier cooking has been done on the kitchen range.

Recently, however, these "little servants" have been coming into their own as a principal means of cooking. In the effort to increase housing facilities, many dwellings of six or seven rooms have been divided into two or three room apartments. At the same time two and three story houses are being remodeled to provide a greater number of small suites.

In the Edison showrooms during this period there have been many inquiries from the new occupants of these small homes, regarding electrically heated cooking devices. They report almost invariably that in the new and restricted quarters there is no room for the customary kitchen range and that, therefore, they are obliged to find other equipment for their kitchenettes. A demonstration invariably convinces, and the usual purchase is a grill and a percolator and perhaps a hot-plate.

A Bank Plant Close-down

THE closing of the private generating plant and the signing of a contract for Edison Service marks a new chapter in the already eventful history of the Emigrant Industrial Savings Bank. The imposing eighteen story building which towers above the City Hall, will henceforth be lighted with current from the Waterside Stations of The New York Edison Company.

The Emigrant Bank, as it is familiarly known, traces its history back to the middle of the past century. It was established to encourage thrift among new comers to the New World —a purpose which is indicated in the institutions name. This custom of indicating through the name, the banks principal interests is quite characteristic of the time. Witness the Butchers and Drovers, the Farmers, and the Chemical Banks. The Emigrant Bank and the Chemical, by the way, have been neighbors during the whole period of their existences.

From the cover of an old pass-book

The Bank as it appeared in 1889

In April, 1850, through the activity and interest of eighteen well-known merchants and citizens of the City of New York, and under the guidance of the Rt. Rev. Bishop John Hughes, the first meeting of the Bank's Trustees was held. Among other business, a site at 51 Chambers Street was selected, and this has never been changed. Mr. Gregory Dillon was chosen first President. Many of the men interested were trustees of The Irish Emigrant Society, a charitable society founded in 1841 for the protection of Irish emigrants.

The following announcement appeared in a single insertion of the "New York Daily Tribune," on October 3, 1850, and was the only advertisement of the proposed opening:

Emigrant Industrial Savings Bank, 51 Chambers St.

This bank, chartered by the legislature of the State of New York, has taken the premises, 51 Chambers Street, east of Broadway, for the purposes of the bank. The bank will be ready to receive deposits on Monday 30th inst. and will continue open every day thereafter (Sundays excepted) between 5 and 7 P. M.

On December 31st of the same year the bank issued its first statement, showing there were 265 depositors, and $34,935 deposits. In 1852 the premises were bought and the second statement announced deposits of $460,000. In

Photographic Bureau of The New York Edison Company

The Eighteen Story Structure that Owes the "Lights in its Eyes" to Edison Service

1857 it was decided to erect a building that would adequately house the growing bank. This was accomplished on the site of the original leased building.

When the bank was incorporated, the Battery was the popular promenade, and the wharves of the East and North Rivers bristled with the masts of clipper

ships from which emerged the pioneer depositors from the Emerald Isle.

Life in New York at that time was not all work and no play for this was the day of the incomparable Jenny Lind, who so capably managed by Mr. P. T. Barnum filled Castle Garden to capacity. Professor Longfellow of Harvard, and John Greenleaf Whittier were publishing poems in the daily press.

During the troublesome years to follow and the dark days of the Civil War, the bank expanded and felt the financial panic of 1873 but little, although the directors met every day to issue statements to the frightened depositors.

Finally in 1885 the need for more room became imperative, and at a meeting of the directors it was decided to build the "modern" seven story office building, and in 1887 the banking room temporarily removed to 57 Chambers Street, to await the completion of the new building. The banking room in the new building was described as "being universally acknowledged one of the handsomest, best equipped and spacious in the United States."

Contemporaneously the social and public life presented their share of interests. Another woman held the center of the musical world, for Adelina Patti caused P. T. Barnum to spend just as many dollars for admission as he had charged as a manager in former years.

The following verse in an issue of one of the daily papers April 23, 1887,

"We steadfastly mused on the flats
we had seen,
And bitterly thought of the morrow"

proves that house hunting is not a recent New York amusement. Also because car number 288 of the Broadway Surface Railroad attached a new device for running sand on slippery rails, the wrath of the Mayor and press was felt. "This seems an absurdity for the street car companies are required by law to keep their tracks clean instead of spreading dirt upon them."

In 1897 another statement by the bank announced deposits totaling $51,000,000, and again ten years later in 1907 the amount had reached $95,000,000, almost doubling the first statement. And so the business grew until finally the "modern" office building of 1889 became so crowded that something must be done and again in 1908 the directors met to discuss the subject of rebuilding. The outcome was the purchasing of the adjoining lots, numbers 43, 45 and 47 Chambers Street, to expand towards the east, and on this new ground the first wing was built, the banking room remaining in the old building until the completion of the east wing. It was then moved into that wing until the old building was razed and the new west wing erected.

This magnificent eighteen story building was completed in 1909, and is probably the largest banking building in the city.

The statement of August 1, 1919 credits the bank with 195,000 depositors and deposits totaling $200,000,000 again doubling the former total. This represents, according to a bank official, one tenth of the entire savings bank deposits of New York State, and places the bank first in the United States in the number of deposits and in total deposits.

In addition to its financial activity the bank to-day houses the offices of many justices of the county, state and municipal courts and plays its part in that section of the city with which its history is so closely interwoven.

Autos for the Automat

NOT many New Yorkers who dine "Automat"ically realize how much they owe Philadelphia for an unusual style of eating place. The Automat, introduced in New York by the Horn & Hardart Company in 1912, had already been serving Philadelphians since 1884. Another thing—they serve the same kind of ice cream here that Philadelphia boasts of—vanilla ice cream, made with cream and full of the specks which indicate the presence of the vanilla bean, specks which as a rule are not detected in the ice cream of this city.

Just how unfamiliar New Yorkers are with this kind of cream may be judged from the fact that not infrequently complaint is made that the ice cream has dust on it.

Another Philadelphia aspect of the business and the reason for this writing is the delivery system. All deliveries are made with electric trucks which were built in the Quaker City.

None of the food served in the various Automats is cooked on the premises. There is little besides the serving tables and warming closets behind the slots and compartments of these marble lined rooms. Everything is prepared at a central plant or commissariat and delivered by electric trucks to the various restaurants throughout the city. For this delivery, ten cars built by the Commercial Truck Company, are required.

Use of electrics in New York followed logically an earlier experience with this type of car in Philadelphia, where the pioneer auto was installed fifteen years ago. Therefore when the Automat moved to New York in 1912 a vehicle of 1,000 pounds capacity was installed. A second vehicle of double the size was soon added and since then the fleet has been increased to ten. These make the daily rounds of the nineteen restaurants in New York, each vehicle making three trips to the branches it serves.

The deliveries of the day begin at 5 A. M., bread and rolls and other breakfast supplies being carried. The second trip starts at 9 A. M., providing for the luncheon hour. The two o'clock trip takes care of the requirements of the supper hour, while a special round is made at 9 P. M. to meet the needs of late diners.

All of the vehicles are required for the three trips during the day. Some of the trucks supply three restaurants, while those which serve the larger places carry

Photo by New York Edison Company

Unloading One of the Trucks

Photograph by The New York Edison Company

The Electric Auto Trucks which Serve the Nineteen Restaurants of the Horn & Hardart Co.

food for but two. Only two trucks are used for the fourth trip, the demand of course is not so heavy at night. These are able to supply all the restaurants in the city.

The central baking plant is at Fiftieth Street and Eleventh Avenue, and the branches are scattered throughout the territory lying south of 47th Street and between Madison Avenue and Eighth Avenue. In this territory the longest run is to the lunch room at 50 Broadway. The vehicle which makes this trip also serves the branch at 386 Broadway. This run from Fiftieth Street to Bowling Green is made three times a day and always without a battery boost. Electric trucks were found particularly desirable for this work because of ease of operation in the heavy traffic of this congested area.

The trucks of the Automat are now familiar in New York streets. They are brown in color and the bodies are unusually wide. With some of the trucks this wideness is emphasized by the flare with which the body curves upward and outward from the truck frame. This is part of the design and is necessary in handling cooked and prepared food.

All cooked foods are prepared at the commissariat where 175 bakers and cooks are constantly employed. Here the portions are measured out or weighed and each is packed separately. These orders are then placed on shallow pans 15 by 20 inches. Within the wagons there are racks into which they are slid, each vehicle having room for from 160 to 175 pans. Below the racks there is clearance enough to take care of all large packages. Barrels of sugar, baskets of bread, cans of milk and freezers of ice cream are carried in this space without the slightest danger of accident.

"We have to have a vehicle that we can depend on absolutely, that is not expensive to operate, that is clean and that can be handled easily in the heavy traffic of down-town New York," said Mr. L. A. Lewis, of the Horn & Hardart Company, recently. "We have been using electrics in our business in Philadelphia for fifteen years and here since 1912, and we have always found that they filled all our requirements."

Illustrations by Courtesy of the New-Valentine's Manual

City Hall in the Days Before the Post Office Occupied a Goodly Section of the Park

City Hall—Skyscraper

IT may be difficult for the present generation to realize that there was a time when the City Hall was the highest building in town and justly entitled to rank as a sky scraper. When it was completed in 1812 it dominated the entire lower section of the Island and was variously described as "prodigious" or "colossal." The outlook from the cupola was unrivalled. To the south, the view stretched clear across the Bay and down through the Narrows. The wooded heights of Long Island lay to the east while the high hills of Westchester seemed almost within reach. And on the west the Hudson could be seen stretching to the north, the grim silent crags of the Palisades forming an impressive background. Very few houses were then beyond the line which marked the limit of the "Common Lands" as the Park was called. In fact there is a tradition that the rear of the City Hall building was finished in brown stone instead of marble, because "No one would be the wiser as the city would never extend any further and the substitution would never be noticed."

The City Hall ranks architecturally as one of the really great successes, not only of its own day, but of all the days that have since intervened. There are beautiful buildings in New York but from many points of view the old City Hall is justly regarded as one of the most successful structures ever erected. It is graceful in design, admirably planned and, were it to be seen in the environment which it originally enjoyed, its beauty and impressiveness would be still further emphasized. No one at that time could foresee that this beautiful building would first be surrounded and dwarfed by huge towering structures and then have its approach destroyed by the erection of the massive Federal building that overshadows the Park itself and utterly ruins the original prospect.

Although many attempts have been made to remove the old Post Office from its present location, nothing has resulted. Recently however the Board of Estimate has taken the matter in hand and a bill has been introduced into Congress, having for its object the removal of this building. There seems an excellent possibility therefore of at last accomplishing this much desired improvement.

City Hall Park in History

The history of City Hall Park is deeply intertwined with many of the exciting events which lead ultimately to the creation of the Republic. When the city was still below Wall Street, hemmed in by a stockade or palisade erected by Stuyvesant for defense against attacks by Indians, and wild beasts, the Common Lands were used by all the farmers for pasturage. There was a gate at Broadway and Wall Street through which cattle were driven in the morning and returned by their owners at night. The city owned this plot of grazing land and it was free to all inhabitants.

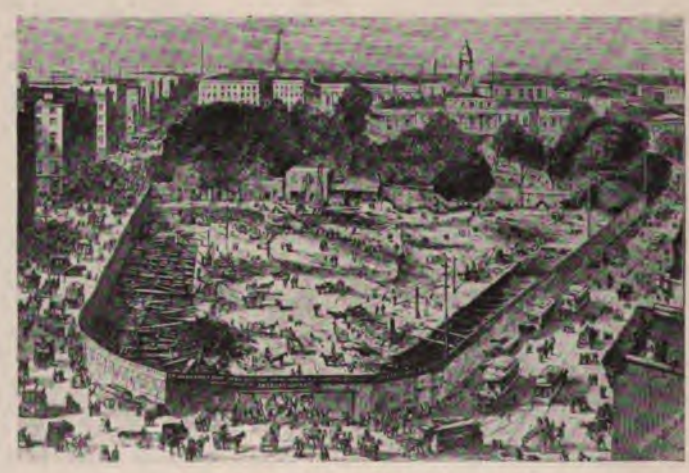
Singularly enough the old Common Lands was the first victim of political graft. The original boundary ran along its present line on Park Row, continued down Nassau Street to Beekman and then crossed over to Broadway. That made it more of a square shaped plot than it now is. However, one of the

early Governors quietly chipped off the little angle that lay east of the Road to Boston and annexed it to his farm as part of his garden. So the strip which covers from Nassau Street to Park Row with Ann Street as the back line down to the little angle at Spruce Street where stands the statue to Benjamin Franklin was lost to the City. The old building of the New York Times, which stood at the apex of this severed section was the first office to be lighted by electricity. The lighting equipment had been installed by Thomas Edison. It caused a great sensation and in Billy Hitchcock's that night great excitement prevailed over the reports of the new light that had no heat, no odor, that required no matches and that gave better illumination.

The Park is now surrounded by a great multitude of Edison served buildings, among them the World, the Emigrant Industrial Savings Bank, the Stewart Building, the Municipal Building and the office structures on the Broadway side. The Times, now on West 43rd Street is one of the Edison Company's largest newspaper customers.

No one seemed to realize the great damage that would be done to the Park by the loss of such a large area as was sold to the Federal Government for a Post Office site. It apparently never occurred to any one that the City was at once destroying the approach to one of its architectural treasures besides giving up much breathing space that would later be sorely needed. The whole objection rested solely on the location. It was considered "too far uptown"; and the Wall Street District where most of the mail then originated was highly indignant and raised many protests. Still the City was growing as all could see, and in spite of objections it was finally decided to place the Post Office where it now is and take the chance of the location being satisfactory in the next few years. And so was lost the beautiful southerly end of the Park and the attractive fountain that had stood there since the "introduction of Croton Water in 1845." Some idea of the beauty of the Park in the old days may be judged from the old time prints which we show.

In its old time form, it will conjure up many of the scenes that have made it famous in the past. The meetings of the Sons of Liberty on the Common form a stirring page in the exciting events which led up to the Revolution. A great meeting was held here in 1765 to protest



Foundation Construction for the Post Office

The Famous American Museum at One Time Occupied Part of the Park

against the Stamp Act. And when the Act was repealed a similar meeting was held to express the gratitude of the people to the King and especially to his Prime Minister, William Pitt afterwards Lord Chatham. Chatham Square was named after him and his statue was erected on Wall Street opposite William Street.

But peace was not apparently the aim of the English Government, presided over, as it was, by a German King. All through the stormy days that immediately preceded the actual breaking out of hostilities the Sons of Liberty met in the Park where they had erected a Liberty Pole after the repeal of the Stamp Act. This Pole was frequently removed by the King's soldiers and was also the cause of personal encounters between the citizens and the representatives of the Crown. Finally, a small section of land was purchased by private persons and the Pole erected thereon. It was then free from molestation and became the rallying point for all the friends of freedom. It is this fact that has suggested the erection of a Liberty Pole in the Park as a War Monument to the Liberty Boys of 1918.

When Washington appeared in the Park to read that immortal document, the Declaration of Independence, the old Park may be said to have reached the zenith of its fame as a colonial possession. In a very few years it was to be forever severed from the Crown and become the civic centre of one of the greatest of modern municipalities. A tablet marks the site near where Washington stood during this ceremony and the building itself contains many treasures of that period in the history of old New York. No section of the city looms so large in the history of New York as does the plot around the City Hall. It has witnessed the arrival of all the notables who have visited our city beginning with that of Lafayette in 1825. Included are all the notable figures of recent history and with the coming this Fall, of the Prince of Wales and the later visit of the King and Queen of Belgium it will again arise to its best traditions.

Autos at the Electric Show

Electric vehicles will form a prominent part in the display at the New York Electrical Exposition this month.

Trucks built by the Ward Motor Vehicle Company, The Commercial Truck Company of America, and The Walker Electric Vehicle Company will be shown, while passenger cars will be exhibited by the Baker R & L New York Corporation, and by the Metropolitan Detroit Electric Automobile Company. Storage battery manufacturers will be represented by The Electric Storage Battery Company and the Philadelphia Storage Battery Company.

Apropos of Appliances

"I WANT to have my electrical department suggest electricity, to have my salesmen talk electricity, and, if possible, to have customers think in terms of electricity when entering here," said the manager of the electrical department of one of our foremost department stores recently. "When I go into the showrooms of The New York Edison Company everything suggests electricity; nothing detracts from the atmosphere—it's 'electric.' I see the demonstrations and am interested in them; I am invited to taste the electrically cooked food; I see washing, ironing, and dishwashing performed by electric power. Convinced, I want to buy."

So speaks this manager, and so speak those managers, who have grasped with keenness and forethought the opportunity which the times have brought. The stores are specializing in electrical goods just as they have specialized in their other departments. Where electrical departments have already been established for some time, their efficiency has been increased by a fuller and more attractive stock. Where hitherto the department has carried only a line of the smaller appliances, it has enlarged its selling field by the introduction of the bigger appliances. Where no department has existed, one has been created by first introducing the smaller table appliances.

By innovations of this kind, the department stores have sought to help solve the servant problem. They are enabling the homekeeper who is forced to perform her own household duties to learn to work with all the comfort and convenience which these appliances afford.

Photographic Bureau of The New York Edison Company

The Display of Electrical Appliances is Made with a View to Attracting and Appealing to the Prospective Buyer

Photographic Bureau of The New York Edison Company

In this Permanently Installed Kitchen Electrical Appliances are Demonstrated under the Direction of a Home Economics Expert

Through the medium of newspaper advertising, the installation of kitchen displays, and attractive demonstrations, the department stores have reached not only their own customers but the public at large. Through their advertising they are reaching remote corners. The recent publicity regarding the installation of a display kitchen at Wanamaker's brought more than four hundred visitors during the opening day. As a result of the full page advertisement of Gimbel Brothers on how "To Solve Clothes Washing, House Cleaning, and General Housework Problems," a vast number of inquiries for washing machines were received and forty were sold within a period of two weeks. Other department stores, such as Stern Brothers and Lord and Taylor have found that it is worth while to advertise electrical appliances. According to one manager, his department has never experienced such remarkable success in the sale of these goods.

To bring graphically before the public the value of electrical devices, the department stores have carried on extended demonstrations and have made their windows attractive with electrical appliances, to which a passerby could not fail to be drawn. This has been done by Lord and Taylor, on Fifth Avenue; by R. H. Macy and Company, in the heart of one of New York's busiest thoroughfares; by Gimbel Brothers, where window and floor demonstrations have attracted attention; by James McCreery, where the demonstration of the washing machine for a period of two weeks this spring brought good results; by John Wanamaker, where a section of the seventh floor of the new building has been equipped as a permanent display kitchen and model laundry, in which demonstrations are being carried on continually. Stern Brothers, which has no house furnishings department but which is awake to the need for and the future of electrical appliances, has a display of the smaller devices in close proximity to the toy department, thus attracting the customer who comes in with the idea of

buying a gift. Vacuum cleaners are demonstrated and sold in the rug department; and it is hoped that a model kitchen will be installed in the near future.

Much care and attention are given by the stores to the arrangement of electric appliances for the purpose of creating the impression of good taste and quality soften the tones from the electric lights.

The department stores have sensed the situation, and are anxious to meet it. They are aiding in the solution of the servant problem by advertising and demonstrating electric labor-saving appliances. Through progressive publicity and by featuring special demonstrations

The Department Stores are Beginning to Give as Much Attention to Advertising Electrical Goods as they Give to the Publicity for their Other Lines

goods. Appliances are attractively arranged upon the tables where customers are sure to see them. Conspicuous space is given to the larger appliances, in order to catch the eye of the visitor as he enters the department. Nickel and copper ware is displayed in glass cases; and all kinds and sizes of attractive portable lamps the public is not only interested but wants the appliances demonstrated. Seeing them at work, and, surrounded by an "electric" atmosphere, customers are convinced and encouraged to buy. They are more than interested, demonstrators reporting that the opening days at the different stores often bring the same people.

Awakened

All day the forest drank the fiery wine
Spilled from the golden goblet of the sun,
All day, with fern and creeper overrun,
The jungle flourished in the fierce sunshine.
Where once it rioted, now lies supine
That buried wilderness. Its life was done
Before the life of Man had yet begun.
Today the sun-drenched forest is a mine.

And yet the sunshine in its grave but sleeps:
The furnace wakes to life the anthracite,
And in the flame's embrace there leaps and glows
An ardor, urging on the dynamos.
Through countless aeons, out from shadowed deeps,
Spills hidden sun-hoard once again as Light.

Charlton Lawrence Edholm

Decoration by C. B. Falls

Photograph by The New York Edison Company

This artistic window display and lightning arrangement attract the crowds passing daily through 32nd Street to and from the Pennsylvania Station. The energy of the bustling throngs pervades this electric supply store of W. F. Irish Company where the atmosphere is charged with alertness and activity

Photograph by The New York Edison Company

The electric shop of K. R. Schullstrom on 59th Street between Fifth and Madison Avenues, where appliances and lamps are effectively displayed

Manufacturers and Agents (Continued from Page 68)

Motors

Inspection—Maintenance—Repairs (Cont'd)

Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Cutter F B Co—50 Church St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Klein & Co—208 Centre St
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St

Signs Electric

Bofinger Bros—146 East 42d St
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L (Flexlume Sign Co)—560 Seventh Ave
Universal Elec Stage Lighting Co (Kliegl Bros)—240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 ChurchSt
Betts & Betts Corporation—511 W 42d St
Reynolds Elec Co—1123 Broadway

Specialties

Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers)—1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes)—114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St

Manufacturers and Agents (Concluded)

Switch and Distributing Boards (Concluded)

General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Associate Company (Sturtevant)—21 E 40th St
Duntley Products Sales Co—295 Fifth Ave
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Lightolier Company—569 Broadway
Muenzen Specialty Co—131 W 42d St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Jorgensen John—114 Liberty St
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co—457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Domestic Laundry Equipment—224 W 26th St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers)—11 E 42d St
Hurley Machine Co—147 W 42d St
Lightolier Co—569 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Northwestern Electric Equipment Co (Geyser)—35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)—119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Manhattan

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Fox Electrical Corporation—119 W 42d St
Fullerton Electric Co—15 W 20th St
Goetz A Edgar Inc—55 Barclay St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Killoch David Co—57 Murray St
Latham E B & Co—4 Murray St
Leahy John J—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co The—7 W 29th St
Ostrander W R & Co—371 Broadway
Public Electrical Supply House—62 Essex St
Royal-Eastern Elec Sup Co—114 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Sankard
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 92—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1170—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 8th St 48—American Pressing Iron Co
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker National Fire Prevention Engineering Company
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—Nichols & Judson
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co

Wiring and Installation Contractors (Concluded)

Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 81st St 229—Edward Zenker
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
Park Ave 1630—Wimpie Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 152d St 835—J Lowe
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
East 201st St 261—Leonard B Fox
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East Fordham Road 11½— S W Mills
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 9—The Yonkers Electric Light & Power Company
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barrow St 25—Jos Torre
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beaver St 45—Welborne & Co
Beekman St 96—Naumer Electric Co
Bleecker St 122—A Epstein
Broad St 68—Broad Equip Co of N Y
Broad St 88—S F Haddad
Broad St 122—Stewart-Dickson & Co Inc
Broadway 1—William Vautin
Broadway 120—Leslie-Stevens Co Inc
Broadway 149—Singer Bldg 3215 Read-Dresser Engineering Company Inc
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Electric Co
Broadway 302—Harry Weinstock
Broadway 320—Standard Electricians & Mill Wrights
Broadway 335—Monowatt Elec Import Co
Broadway 383—A Edelman
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 224—United Cutlery Co
Canal St 257—J & C J Ernest
Canal St 261—Stransky Mfg Co
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 392—Welsbach Gas Lamp Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 196—Max Zuckman
Centre St 231—Worth Electric Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Chatham Square 2—Louis Abrahams
Church St 30—Wm Braun
Church St 30—H P Copeland
Church St 30—P A McGuire
Church St 50—F W Collins
Church St 50—J K Hooper
Church St 50—Standard Drug Co
Church & Vesey Sts—Metropolitan Hardware Co
Cooper Square 10—Philip Addison
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin
Cortlandt St 39—W S Broadhurst
Cortlandt St 39—Russell G Cory
Cortlandt St 42—Terminal Cycle & Sporting Goods Company
Cortlandt St 70—W R Pabst
Cortlandt St 84—Bleyle Electric Co
Dey St 48—John J Leahy
Dey St 62—A E Gelling
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 62—William E Williams
Front St 124—Charles Davidson
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—H D Perlman
Fulton St 110—Marlen Hdwe Co
Fulton St 176—F H McAllister-Keller Co Inc
Fulton St 235—American Elec Technical App Co
Fulton St 248—Williams & Wells Co
Gold St 13—Anderson & McKenzie
Grand St 162—Adam Kalb
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Sankard
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 185—Weint Electric Co
Greenwich St 255—G M Ross
Greenwich St 460—A F Beckman & Co
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
John St 84—Alfred Whiteley Inc
John St 99—T Frederick Jackson Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 95—John W Hooley
Liberty St 114—Equipment Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Chas W Osburg Co
Liberty St 123—Smith-Meeker Eng Co
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 91—Weber & Jones
Maiden Lane 100—Grab-Gamsby Hdwe Co Inc
Mercer St 15—Mogul Elec Sup & Cont Co
Mott St 44—Quong King Long Co
Murray St 4—E B Latham & Co
Murray St 23—Stanley & Patterson
Murray St 37—Fensterer & Ruhe
Murray St 43—Conlan Electric Co

Authorized Mazda Lamp Agents (Continued)

Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 140—Reid-Yeomans & Cubit Inc
Nassau St 145—N Y Supply & Inspection Co
Nassau St 154—Minato Honga Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 15—United Adjustment Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 116—Kelting Electric Co
Pearl St 39—Commercial Construction Co
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 69—DeVincent Casale
Sixth Ave 81—H & F Metzinger
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Spring St 60—J N Fannelly
Sullivan St 29—Jasper Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Vesey St 59—L Gabler & Sons
Vestry St 35—Northwestern Electric Equip Co
Wall St 82—L R Wood
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 97—Wm E Glaeser
Washington St 81—Rector Electric Co
West Broadway 176—O M Matzen
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 487—J Ash Sewing Machine Co
West Broadway 490—X-L Machine & Elec Co
West Broadway 491—Acme Machine & Motor Co
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West Houston St 20—Stein Manufacturing Co
West St 90—Peters & Peters Inc
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
Whitehall St 26—Reilly & Guy
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
William St 165—Beatrice Electric Co
Wooster St 33—Paul Silverstone

East Side District

Avenue D 2—The New Interboro Electric Co
Avenue D 53—Barnett Rosenberg
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Sup Co
Bowery 147—N Hirschfeld
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 242—Liberty Lighting Supply Co Inc
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 280—Cosmopolitan Gas & Electric Supply Company Inc
Bowery 283—Dulberger Sup Co
Bowery 304—Samuel Frost
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—National Gas & Elec Co
Broome St 327—N Y Gas Light Co
Chrystie St 155—M Powell
Delancey St 25—Wm H Blank
Delancey St 188—Louis Boritz
Division St 87—Soffen Brothers
Division St 133 Lincoln Cont Co
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 104-6—J Reimer
East Houston St 170—D Stein
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St—Charles Lipschultz
East 4th St 235—N Rosenbaum
Essex St 62—Public Elec Supply House
Forsyth St 96—J Cohen
Forsyth St 182—Ben Goldberg
Ludlow St 69—Chas I Silberman
Ludlow St 144—Louis Yuster
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Rivington St 265—M Franzblau
Second Ave 24—Crawford Elec Cont Co Inc
Second Ave 73—J Brown

Irving Place District

Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1133—Electrical Consumers Adjustment Corporation
Broadway 1133—N Y C Lamp Service
Broadway 1155—Empire Electric Co
Broadway 1161—Antler Elec Co
Broadway 1170—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 10th St 30—Spero & Cohen
East 10th St 79—D Berkowitz
East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 11th St 112—Ohm Electric Wks Inc
East 13th St 34—A L Todd
East 14th St 7—William Landau

Authorized Mazda Lamp Agents (Continued)

East 14th St 10—Acme Electric Co
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 17th St 3—Fruhling Art Light Co
East 17th St 18—Metropolitan Elec Lamp Co
East 17th St 102—Chas Cordts
East 18th St 509—Leo Procknick
East 22nd St 20—Schultz Electric Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—William Fredericks
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 49—Nathan Garber
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 334—Wm Purdy
Fifth Av 63—Edison Lamp Service Co Inc
Fifth Ave 75—H M Walter
First Ave 312—A Koppeman
Fourth Ave 101—Starobin Elec Sup Co
Fourth Ave 108—I Gluck
Fourth Ave 110—B H Turecan & Co
Fourth Ave 121—Borough Elec Co
Fourth Ave 125—A Wangerin
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 130—Goldberg & Rubenstein
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Seventh Ave 219—Subway Hardware Co
Seventh Ave 228—Guarantee Electric & Pressing Iron Company
Seventh Ave 296—B Adler
Sixth Ave 143—M A Klaff
Sixth Ave 164—McGeady & Mabs
Sixth Ave 182—Geo H Bingler
Sixth Ave 379—Sandback-Gilbert
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 431—Siegel & Rittner
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—Stromberg & Levin
Tenth Ave 239—I P Frink Inc
Tenth Ave 246—Robert F Hitchman
Third Ave 182—Metz-Solars & Co
Third Ave 184—Henry Green
Third Ave 384—D B Pershall & Son
Union Sq 10—J Menkes Elec Co
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 52—Insel & Wagner
West 13th St 107—Dale Lt Fix Co
West 14th St 114—J L Vernick
West 14th St 232—Wm H Crary
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 16th St 4—Central Elec Supply Co
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 21—Rambam & Rosenberg
West 17th St 48—Beidner Elec Co
West 17th St 105—Manhattan Elec Ltg Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 227—Lighting Eng Service Co
West 19th St 8—Biglow & Moffatt
West 19th St 40—Lewis Harbitter
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 27—Import Sales Co
West 20th St 120—Reliable Sewing Machine & Electric Co
West 21st St 4—Janover Electric Co
West 21st St 117—Morris Gika
West 21st St 162—Chelsea Elec Motor Rep Co
West 23rd St 235—Eastman Kodak Co.
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Geo Ehrlich
West 24th St 105—Samuel Vogel
West 25th St 117—Eastern Elec Contracting Co
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Authorized Mazda Lamp Agents (Continued)

Forty-second Street District

Broadway 1358—Siems & Co
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1409—A & A Electric Co
Broadway 1416—Elec Service Eng Co
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
Broadway 1717—N Y & Brooklyn Auto Sup Co
Broadway 1743—Times Square Auto Sup Co
East 29th St 34—Albin Gustafson Co
East 29th St 41—S K Kline
East 30th St 2—Simpson Electric Co
East 31st St 8 10—Sussman & Sussman
East 32nd St 19—R E Leve
East 34th St 144—S W Elec Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 42nd St 146—Bofinger Bros
East 42nd St 236—Hoffman & Fischbach
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 3—Walsh Elec Sup. Co.
East 47th St 17—Black & Boyd Mfg Co
East 52nd St 19—White Allom & Co
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 712—G Walker & Sons
Eighth Ave 882—Nichols & Judson
Eighth Ave 903—Chas Weinz
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 347—B & B Sign Co
Fifth Ave 417—Underwood & Underwood Inc
Fifth Ave 489—Heath & Kantack
Fifth Ave 503—A W Haire
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave 331—Herz Pharmacy Co
Lexington Ave 589—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Madison Ave 361—Tiffany Studios
Madison Ave 415—Reeder Bros
Madison Ave 418—Edward J Dewey Co
Madison Ave 619—Frankle Alffias
Madison Ave 631—Electrical Stove Co
Ninth Ave 314—G C Bowers
Ninth Ave 604—Geo Unsold
Ninth Ave 630—Nathan Marks
Ninth Ave 658—J K Oats Sons
Ninth Ave 767—Isidor Brand
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Seventh Ave 182—M Miller
Seventh Ave 515—Van Beuren & N Y Bill Posting Company
Seventh Ave 560—L L Strauss
Seventh Ave 729—Boyer-Gordon Drug Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Seventh Ave 843—Reuben R Smith
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 496—Seigel & Mittenthal
Sixth Ave 636—Fred B Zender
Sixth Ave 657—Office Supply Co
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 947—John W Flint
Sixth Ave 982—Ed Nicholson
Sixth Ave 1093—Mt Morris Auto Sup Sta
Tenth Ave 578—Charles F Dunker
Tenth Ave 672—J G Gloecker
Tenth Ave 755—H F Lutters
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co
Third Ave 767—Otto Fuchs

Authorized Mazda Lamp Agents (Continued)

Third Ave 918—Sidney Frey
Third Ave 959—Rabinowitz & Kluger
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 29th St 162—Jaffer Electric Co
West 30th St 56—Henry Drezler
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 151—Alpha Electric Co Inc
West 30th St 208—Kissell Co
West 31st St 14—Charles Campbell
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Company
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 32nd St 130—W F Irish Co
West 33rd St 221—E J Elec Installation Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 34th St 210—Harry B Sommers
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 36th St 126—Metropolitan Elec Sup Co
West 37th St 54—Roeser & Heidelberger Inc
West 37th St 102—Jerome Electric Co
West 38th St 47—S W Jawitz Co
West 40th St 105—Publicity Clock Co
West 40th St 143—Smith Elec Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 232—Paramount Elec Const Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 48th St 6—Duplexalite Corp
West 48th St 244—M Schweiger & Co Inc
West 48th St 415—Fisch Elec Sign Co
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 74th St 204—Jos Rappaport
East 77th St 149—L Segalbaum
East 84th St 158—Gabriel Erdos
East 86th St 341—L S Metzger
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1576—Joseph Corak
First Ave 1678—Frederick Barton
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1398—M Behm
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 588—T J McGunnigle
Park Ave 1086—S Littman
Park Ave 1124—John B. Schramm
Park Ave 1222—Modern Health Pharmacy
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1838—P Stein
Second Ave 2033—Rosenthal & Rosen
Third Ave 1011—J M Kohlmeier
Third Ave 1132—Plaza Elec Co
Third Ave 1055—F Gretzer's Sons
Third Ave 1165—Jas Gear

Authorized Mazda Lamp Agents (Continued)

Third Ave 1195—Harry Goldman
Third Ave 1286—F & B Electrical Co
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1460—Circle Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1501—M Eberhart & Son Co
Third Ave 1545—N W Altman Co.
Third Ave 1636—Benjamin Phillips
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 97—Max Weiss
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 326—I H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 618—J Schirackson
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—B Murphy
Amsterdam Ave 941—Julius C Belmonte
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Marcus & Klein
Amsterdam Ave 1084—F W Fehling
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1463—B S Lutz
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1834—Trop Specialties Co
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1939—Bull DuRoy Elec Co
Broadway 1987—King Tire Co
Broadway 2035—S A Friedman
Broadway 2104—Modern Ltg Co
Broadway 2142—C B Montagriff
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2286—P J Mulcahy
Broadway 2299—M J Kane Inc
Broadway 2304—J F Driscoll
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3181—Dorb Drug Co
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 144—E May Inc
Columbus Ave 171—N Vincenzi
Columbus Ave 189—B & C Electric Co
Columbus Ave 196—Columbus Elec Co
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 592—R C Spencer
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Sup Store
East 112th St 173—Behl Electric Co
East 115th St 58—M S Rosenfeld Bros
East 116th St 12—J Alpert
East 116th St 204—Empire Gas & Elec Fix Co
East 125th St 17-19—F J Rush
East 125th St 48—Irving Bropp
Eighth Ave 2090—R M McCutcheon & Co
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2371—West End Bee Hive
Eighth Ave 2441—A E Jackson
Fifth Ave 1410—S J Eisner
Fifth Ave 1442—Julius Adler
Hancock Place 3—National Combination Gas & Electrical Fixture Company
Lenox Ave 22—Morris Perla
Lenox Ave 151—Louis Saphier
Lenox Ave 403—Lenox Elec Co

Authorized Mazda Lamp Agents (Continued)

Lenox Ave 468—Frank & Meyers
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1889—Gristede Bros Inc
Second Ave 2236—A Freeman
Second Ave 2250—Samuel Kapner
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2021—Jacob L Kramer
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 114th St—H A Tomashoff Inc
St Nicholas Ave 1422—Manhattan Lamp Service Co
Third Ave 2098—Iron Spec Co
Third Ave 2352—Chas Mann & Co
West End Ave 165—F W Astarita
West 61st St 16—Asch & Co Inc
West 66th St 161—Leo Strus
West 72nd St 172—John B Campbell
West 72nd St 176—Kaufman & Burkert
West 82nd St 221—Gertler Elec Co
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 125th St 125—I Davega, Jr
West 125th St 125—L Davega Inc
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—E A Briggs
West 125th St 215—M J Heller Elec Co
West 125th St 414—Kennedy & Klarer
West 126th St 301—C O Alberga & Co

Bronx (Melrose District)

Brook Ave 172—S Dworkin
Brook Ave 520—M Goldman
Courtlandt Ave 554—A M Vignali
Courtlandt Ave 606—E Kraemer
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 358—Weber Supply Co
East 155th St 392—Joseph Mancusi
East 161st St 615—J F Smith
East 162nd St 860—Unit Electric Co
East 163rd St 736—Sales Electric Co Inc
East 163rd St 965—Isidor Schohan
East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—Max Finkelstein
East 167th St 460—M Scharzler
East 169th St 535—B Weiss Electric Co
East 169th St 557—Bethlehem Hardware Co
East 169th St 638—Max Berminer
East 170th St 163—Edison Contr & Lamp Co
Elton Ave 673—J Landy
Forest Ave 947—Ed Gorodess
Freeman St 879—L Drescher
Freeman St 958—Joseph Berger
Hunts Point Ave 895—Max Maged
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 950—Louis Gladstein
Longwood Ave 972—Adolph Greenblat
Melrose Ave 558—Hub Elec Supply Co
Melrose Ave 776—Ed O Steinoch
Park Ave 4206—Hugh J Casey
Prospect Ave 631—Max Fertig
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1074—Rapid Elec Cont Co
So Boulevard 1308—Louis I Waldman
So Boulevard 1319—Jacob Katz
So Boulevard 1327—A Dressner
St Ann's Ave 342—S Wishnevsky
Teller Ave 899—George Venney
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2718—A L Biltchick
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Gurland
Third Ave 3000—A A Busch
Third Ave 3151—We Lektrify U Corp
Third Ave 3277—W D Saunders
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3461—Herman Sontag
Third Ave 4239—Northern Gas & Elec Fix Co
Tiffany St 1115—Elias Austin
Union Ave 767—Henry Cohen
Washington Ave 937-1037—M Regelson
Washington Ave 1226—Leopold Altman
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Electric Cont Co
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias
Willis Ave 478—M P Weintraub

Bronx (Tremont District)

Boston Road 1304—Mayo Lighting Fix Co
Boston Road 2017—H Von Hadeln
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co

Authorized Mazda Lamp Agents (Concluded)

East Fordham Road 338—H & M Bloom
East Fordham Road 374—Louis Grossman
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 447—Shipman Stationary Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 755—Becker Bros
East 180th St 554—A Feig
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 184th St 531—George Kohn
East 201st St 261—Leonard B Fox
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2423—J Wollak
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
So Boulevard 1881—Louis Flatau
Stebbins Ave 1142—Walshin Bros
Third Ave 3710—Adolf Birnbaum
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2004—J M Boles
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 231st St 165—Louis Grossman

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway District—424 Broadway
East Side District—124 Essex St
Irving Place District—10 Irving Place
Forty-second Street District—124 West 42d St
Eighty-sixth Street District—151 East 86th St
One Hundred and Twenty-fifth Street District—15 East 125th St
Bronx (Melrose District)—362 East 149th St
Bronx (Tremont District)—Tremont and Monterey Aves

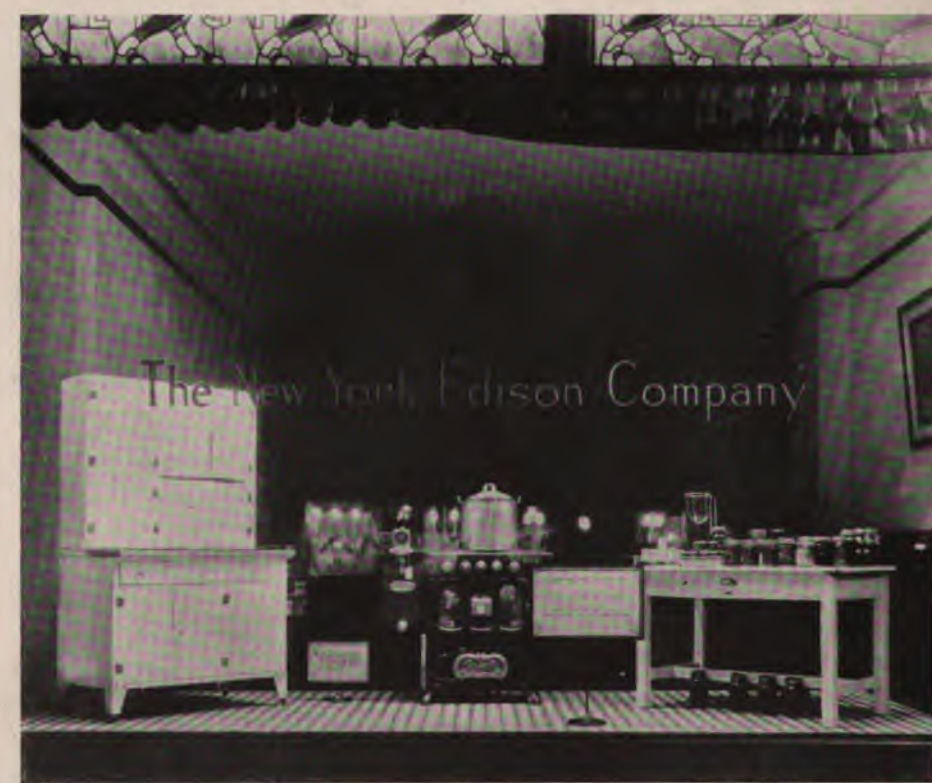


Photo by New York Edison Company

Show window demonstration of electric canning

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

C—Commercial I—Industrial P—Passenger

Anderson Electric Car Co of N Y (Detroit Electric)—Central Park West at 62d St (C & P)
Atlantic Elec Vehicle Company—30 Church St Suite 422 (C)
Automatic Transportation Co—258 B'way (I)
Baker R & L New York Corporation The—Central Park West at 62d St (P)
Buda Co of Chicago—30 Church St (I)
Comm'l Truck Co of America—405 Lexington Ave (C)
Couple Gear Co—(Clarence L Smith Co Agents) —544 W 30th St (C)
Cowan Truck Co—51 East 42d Street (I)
Electro Coach Corp—50 Church St (Busses)
Elwell-Parker Electric Co (Lucian C & G W Brown Agts)—50 Church St (I)
General Vehicle (Walker Vehicle Co.) — Grand Central Terminal Room 3709 (C)
Healey & Co—245 West 67th St (P)
Hoagland-Thayer Inc—300 Washington Street Newark N J (I)
Hunt Co C W Inc—501 Fifth Ave (I)
Koppel Industrial Car & Equipment Co—30 Church St (I)
Lansden Co Inc The—Flatbush & Nostrand Aves Brooklyn (C)
Lansing Co—492 Broome St (I)
Mercury Mfg Co—(Truck & Tractor Co Agents) 25 Church St
Walker Vehicle Co—Grand Central Terminal Room 3709 (C) (General Vehicle)
Ward Motor Vehicle Co—5736 Grand Central Terminal Bldg also Mt Vernon N Y (C)

Charging Apparatus

Allen-Bradley Co—50 Church St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Milburn Wagon Works, Auto Div (P) Toledo, Ohio
Northwestern Electric Co The—1457 B'way
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Charging Apparatus for Ignition, Starting and Lighting Batteries

Allen-Bradley Co—50 Church St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St,
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Lincoln Electric Co—149 Broadway
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Electric Co—110 West 40th St
Westinghouse Electric & Manufacturing Co—165 Broadway

Electric Garages

Acker Merrall & Condit Co—536 W 46th St (C)
Edison Storage Battery Co—247 W 35th St (C)
Exide Battery Depots Inc
East Side Garage—141 E 25th St (C)
North Side Garage—West End Ave & 64th St (C)
West Side Garage—527 W 23d St (C)
International Motor Co—252 W 64 St (C)
Electric Garage The—Central Park West & 62d St (P)
474 West 130th Street Garage Inc The—474 W 130th St (C)
Willett's Garage—15 E 58th St (P)
Wright's Garage Inc—18 Audubon Place (P)

Manufacturers and Agents (Continued)

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St

Buffers—Polishers

Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Fox Electric Corporation (Rapid Dish Washer)—119 W 42d St
Phillipson Emil—110 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf)—303-305 Fifth Avenue
Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burdett-Rowntree Mfg Co—1515 Willow Ave Hoboken N J
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)

Manufacturers and Agents (Continued)

Elevators—Dumbwaiters (Concluded)

Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Company—151 Fifth Ave & 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Roeser & Heidelberger Inc—54 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Waterbury Wallace Co—100 Lafayette St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St

Manufacturers and Agents (Continued)

Globes—Reflectors (Concluded)

Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Dover Mfg Co—30 Church St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark Messrs—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom, Smith Co—41 Union Square
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Grand Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
C & C Electric & Mfg Co—110 W 40th St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
MechanicalApplianceCo(Watson)—39Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Motors Co—149 Broadway
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const &Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6 E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St

Lists Continued on Page 117

October 1919

Tammany Hall in the Old Days

VOLUME 11

CONTENTS

NUMBER 4

The Edison Directory

	Page
Department Stores	97
Manufacturers and Agents	97-100, 117-118
Wiring and Installation Contractors	116, 119-120
Authorized Mazda Lamp Agents	123-128
Edison District Offices with map	Inside Back Cover

The Edison Monthly

Editorial	102
The Old Park Avenue and the New	103
Theatre Trucking	106
Free Air	107
American Surety Building	108
The Osborne	109
Fireless Cooking	110
Back to Aladdin (Verse)	112
To the Descendants of Jubal	113

Copyright 1919, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Lewis B Gawtry, Secretary

The transition of Park Avenue from a dirty, smoky, noisome railroad right of way, to a residential thoroughfare of unusual magnificence represents one of the most interesting chapters in the story of the changes and improvements which have taken place in this city during the past half century.

While it is true that Park Avenue began to change from a squatter town and factory site at about the time the railroad tracks were placed in a tunnel, it is also true that real development did not come until the coal burning locomotives gave way to the clean and silent motor driven trains. It was not until the ventilating ducts that line the avenue from Fiftieth Street to the Nineties ceased to serve as chimneys that Park Avenue came into its own as a thoroughfare of homes.

Today it is perhaps the most highly developed residential thoroughfare in the city. From the yard limits of the Grand Central Terminal almost to the northern portal of the tunnel the avenue presents block after block of apartment houses and private dwellings with an occasional club or church, practically all of which were erected during the past ten years—the period which followed the electrification of the railroad.

These buildings represent the very latest in architectural and engineering practice and for this reason it is particularly gratifying to find that almost without exception they receive their electrical supply from the lines of The New York Edison Company. The current is used not only to provide illumination but to operate elevators, house pumps and in some cases vacuum cleaner systems, and refrigerating apparatus.

The Edison Monthly presents in this issue an article by Mr. Henry Collins Brown, the second of a series on Old New York, telling of the Avenue as it was in the old days. It is truly a remarkable picture of strange contrasts, and points out most strikingly, the influence of electricity as a modernizer.

To all the advantages of the fireless cooker of the ordinary type, the electric cooker brings many of its own. Chief among these is the fact that it is self contained. The cooking of foods does not have to be started on the range with the subsequent transfer of the containers to the cooker. Nor are heated stones needed to maintain the required temperature.

The electric has the heating element as a part of its construction, and the whole cooking process is carried on after the air tight doors are closed. A further advantage is found in the fact that the electric may be equipped with automatic attachments which regulate the starting and stopping of the current.

Thus, as related elsewhere in this issue, a meal which is desired for evening may be placed in the cooker in the morning, and the controlling clock set to turn on the heat in mid afternoon. This same device will also shut off the heat at the proper time, the cooking continuing on the retained heat.

The Old Park Avenue and the New

PERSONS familiar with New York in the days when the New York Central still used steam as motive power are amazed when they see the almost unbelievable change that followed the adoption of electricity. The region directly north of the Grand Central Terminal in particular has tremendously benefitted. Where a miserable lot of shacks and tumble down buildings marked the immediate approach to the Central's station, now stands row upon row of magnificent apartment buildings.

Park Avenue of the middle '50s, as the illustration shows, boasted locomotives which burned wood. The main building of Columbia College at 47th Street and Madison Avenue is shown in the centre of the old drawing and at the extreme right is the forerunner of the present palatial structure for passengers on 42nd Street. This scanty wooden shelter up to this time was typical of a railroad station anywhere in the country. The telegraph, as the poles indicate had, however, come into practical commercial use and the wires paralleled our railways everywhere. These were humble announcements of the great developments that were soon to come and nowhere in the city are there such dramatic contrasts as between the Park Avenue of the present and that of the past. The small picture shows the old avenue as it was above 51st Street where the magnificent new St. Bartholomews now stands.

The old Steinway piano factory now

Illustrations by Courtesy of Valentine's Manual

The Railroad at Park Avenue and about Fiftieth Street in 1849. The Train is South bound to the Terminal at Tryon Row. The Deaf and Dumb Asylum was at Fiftieth Street and Madison Avenue.

occupied by the luxurious Montana apartment house —the House of Millionaires is also shown in this illustration. The other general view is above 51st Street and gives an idea of Shantytown which formerly called this region its own all the way up to 90th Street. The tracks, which at this time were on the street surface, were sunk and bridged over when the first Grand Central Terminal was built in the late 60's. This was an extension of the tunnel under Murray Hill, built in 1840, which lead to the station then at 26th Street. This eighty year old tunnel is still in service and is familiar to riders on the Fourth Avenue trolley line.

The Montana at Fifty-third Street Now Occupies the Site of the Steinway Factory, while still farther South is St. Bartholomews Church

The tracks were on flimsy trestles for a large part of the way through the upper part of the city and the densely populated section that we now have between 90th and 125th Streets was almost bare of buildings.

The extra width of Park Avenue and its central location always made it popular. Beyond 50th Street in the days of steam a brave attempt, by means of plants and shrubs and grass plots enclosed in iron railings, was made to minimize the nuisance of the coal, gas, smoke, cinders and steam that constantly came up through the vents of the old tunnel. And a very good class of private residences developed along the avenue in spite of the noisome conditions.

When the road decided to adopt electricity, few if any were long headed enough to perceive the enormous advance in values that would shortly ensue. There are few "gushers" in Texas that have equalled the wealth that electricity has already created for Park Avenue in the past few years and apparently the shower of gold has only commenced.

To stop for a moment and consider what electricity has done for land values alone in Park Avenue is to confront figures that are staggering. The amount collected by the city for taxes in three or four short blocks would probably exceed the sum formerly received for the whole avenue. Real estate men, contractors, builders, furnishers and a score of other important industries have shared in the treasure trove. All that the improvements cost has come back more than tenfold.

From Fiftieth Street to the Nineties, Park Avenue today boasts block after block of apartment houses and dwellings and public buildings of the highest type. Among them are the Montana, which is soon to be enlarged by an extension along 53rd street, the new edifice of St. Bartholomews Church, the sumptuous home of the Racquet and Tennis Club, the Colony Club, the offices of the Board of Education, and many apartments, which take for their names nothing more

high sounding than their street number. These will soon be joined by the thirteen story Abbottsford at 87th Street, and another at 950 Park Avenue. These buildings are all electrically operated, thus providing for their tenants the very latest in apartment comforts and conveniences, and in keeping with the high standard of service required, all of the buildings receive their electrical supply from The New York Edison Company.

The pictures which we show were all taken of the region which was recently the scene of the wonderful pageant during the Victory Loan campaign and which for the time was called "Victory Way." The piles of German helmets were not at all reminiscent of the goats that used to crown the rocks that still reared their heads out of the old "cut." These goats were there so constantly that a tobacco firm alive to a rare advertising opportunity, painted on the rocks, signs which read "Even the Goats Chew Plug." The sign so naturally animated was a worthy forerunner of the marvelous displays, electrically animated, which today bring fame to another part of the city.

In this changing city of ours it is unsafe to venture on future prophesy. It may be that in a few years the New Yorker of that day will curl his lip in scorn at our much vaunted electric cars of today. He may facetiously inquire what was there in this improvement to brag so much about? Why should anyone brag about a system that nailed you to a certain immovable route whether you liked it or not?

Well, the air lines are not here yet. In the meantime we can for the moment at least congratulate ourselves on the great blessings which Electricity has bestowed upon the present day New Yorker and let it go at that.

Park Avenue in 1859, Boasted in Addition to the Railroad, A Squatters Colony, Several Factories and Many Institutions

Theatre Trucking

THOSE of us who go to the theatre are very apt to feel that with the fall of the curtain at the close of a performance, work for the day is over and that the army of stage-hands who we are told live and have their being back-stage all unseen to us, like ourselves put on their hats and go home. But in reality such is far from being the case. It is after a performance, particularly the last performance of a run, that the real work of the men on the seamy side of the curtain begins. For then the entire show, 'props,' scenery and costumes, has to be packed up and moved.

For the sake of illustration let us invent a musical comedy—"The Green Moon." It has completed its run on the Great White Way and for the next week is scheduled for a Bronx theatre where a full rehearsal has been called for ten o'clock Sunday morning.

The stragglers of the Saturday night audience have joined the great noisy throng on Forty-second Street and the big doors of the theatre are closed. The orchestra chairs seem to lean back and breathe a sigh of relief.

The house is deserted. Groups of lights are switched off from back-stage. Only a few away up in the dome are left on. Suddenly and noiselessly the asbestos curtain rises, swiftly followed by the stage curtain. From up in the flies somewhere a voice shouts directions. Men rush out on the stage and the work of packing begins. Whole sections of the walls of Prince Charming's palace come down and, tilted sideways, are carried out through the wings. The throne is pulled from its platform in a most unceremonious manner by a gentleman in his shirt sleeves, and then is rolled up in the bit of canvas which from out front had looked exactly like a small pond,—"The Magic Pool" it was designated in the program. The wonderful fountains rapidly come to pieces and the rose vines are bundled up into a basket. Chairs, tables, ceilings, carpets and rugs,—everything is pulled, hauled and pushed out through the wings. Where are they all being put and why the hurry?

Electric Trucks for Scene Hauling

Out on a side street are drawn up four great trucks,—with the long platform bodies required in theatrical hauling, but different from the usual transfer truck, in that electric motors have taken the place of horses. The first is almost ready to start off, packed with ponderous rolls of canvas, huge flat sections of scenery and a miscellaneous assortment of trunks and boxes. Atop of all but quite secure, is placed in triumph, Prince Charming's throne. It is a load well beyond the strength of two teams of strong horses.

The driver climbs to his seat. He pushes a lever. Instantly, almost before we realize what has happened, the great truck glides rapidly and noiselessly away. The remaining three trucks are loaded in the same manner and in turn follow the first. No noise, no jerks and jumps, no vibration as the vehicles roll away.

"The Green Moon" is on its way up to the Bronx where in perhaps an hour it will arrive and be packed away ready to rise over the footlights of its new home on the following morning.

The Cains Transfer Company at 530 West 41st Street has been using four electric two ton trucks for moving scenery for over a year. Two of them are General Electrics and the other two are Walkers. They have afforded complete satisfaction and have more than fulfilled their owner's expectations. Not only do the electrics handle bigger loads in less time, but they are considerably less expensive to operate than other types of trucks.

One day's work which particularly pleased the transfer company was a trip made from the garage at 41st Street to a theatre up on 152nd Street, the Bronx, where a show was picked up and carried to Brooklyn. The trucks were unloaded and then reloaded with scenery for a performance to be given that night in Newark, New Jersey. From Newark they returned to the garage on 41st Street and this was all done on one charge of the storage batteries.

Free Air

One who has pumped an automobile tire, wonders as he passes the familiar garage sign, "free air" who the unfortunate victim is that mere dollars and cents have bound to a pump.

Spare your feelings for they are wasted. If you enter to obtain some of the free air, a little cylinder on a low, rolling platform will be pushed towards you and a connection with the nearest electric socket will be made. This little contrivance, an electric pump, will start to function willingly. Not only is this machine a relief from the old back-breaking method but a great saving of time is effected as well.

Garagemen state that the simplicity with which the electric pump is operated, makes it possible for the car owner to "help himself" and not cause a mechanic to be taken from his work. The pumps are manufactured in various styles by several different concerns.

Photograph by The New York Edison Company

The Four Electric Trucks of the Cain's Transfer Co. Do the Greater Part of their Work in the Small Hours of the Morning

Photograph by The New York Edison Company

The American Surety Building, Opposite Trinity Church, Recently Closed its Private Generating Plant in Favor of Edison Service. The Equipment Includes Seven Electric Elevators, and 5000 Incandescent Lamps

Photograph by The New York Edison Company

The Osborne, Seventh Avenue and Fifty-seventh Street. One of New York's First Duplex Apartment Houses, Has Changed from the Complex Operation of a Private Electric Plant, to the Simplex System of The New York Edison Company

Fireless Cooking

TO recommend an electric fireless cooker to a woman who has already used one of the ordinary variety it would be only necessary to say, "an electric fireless cooker is the most convenient form of fireless cooker possible to have."

But as there are still a great many women who are not yet acquainted with "fireless cooking," it is difficult to extol the virtues of the electric without going a little into fireless cooking in general. For years, it has been preached to American women that the most economical forms of nourishment are cereals, lentils, beans, peas, the cheaper cuts of meat and so forth. Yet for years women have gone on cheerfully ignoring this advice, knowing that with the cooking arrangements prevailing in the average small apartment she would, figuratively speaking, burn twenty cents worth of fuel to make ten cents worth of soup.

Economy of Fireless Cooking

It is the place of the fireless cooker to make these theoretically cheap diets practical for city conditions. The fireless cooker is also claimed as a labor-saving device, which it most certainly is when handled properly. That is, the fireless cooker is the ideal device for the woman who doesn't want to spend all day in the kitchen, and yet who wishes to give her family good, nourishing meals slightly tinged with economy.

With this much as to fireless cooking in general, let us approach the electric fireless cooker, of which there are several reliable makes obtainable in New York City. The lamp-socket fireless, looks not unlike the "single cell" version of a plain fireless; its construction is in many ways similar, for it is essentially a metal, packed box, with a nest to contain the cooking utensils. The packing is an insulation, serving to keep the heat in, while the cover-closing is made very tight, in order to prevent escape of heat in that direction. At the bottom of the electric fireless is the heating unit, which takes the place of the soapstone disks that form the heating elements on the ordinary cookers.

It is in this feature that the electric fireless is superior as a labor-saving device. With an ordinary cooker, it is necessary to "start" the cereal, soup, vegetable, or whatever the food may be, upon a stove of some kind. Besides this, the one or two disks must be heated before being placed in the cooker.

With the electric fireless, containers holding the uncooked food are placed in the cooker, the current is then turned on for the requisite time given in the food cooking tables; at the end of this period the current is turned off, and that is all there is to it. It seems as if it were impossible to have a simpler or less laborious process, yet some electric fireless cookers have one more refinement still, an automatic time-clock. Where this is provided, the clock is set for the length of time required in the cooking tables,—say 45 minutes for a pot roast weighing five pounds. The cook can then leave the house with her mind at rest. When the forty-five minutes have passed, the time clock will automatically cut off the current from "high" and leave only 40 watts flowing. This is sufficient to keep

the roast hot, without cooking it more than the specified amount. Such an arrangement is admirable for the making of cereals, stews, soups, fricassees, the baking of beans the stewing of dried fruits, and so forth.

The electric fireless cooker is an admirable device for any home where the mistress is also chief cook, but is an especially desirable addition to the apartment where the kitchen is of the "kitchenette" variety. With the aid of a small electric grill, or toaster stove, and some tea or coffee making device, there is no reason why three good meals a day could not be served. And for a professional household, where not more than two meals are served daily, a very limited kitchen space would suffice. It may be pointed out by the objector, that an electric fireless cooker will not make popovers, or brown pastry or pies over the top. It is true that there are a few things of that nature that an electric fireless cooker will not do (at least the size of cooker that operates from a lamp socket) yet with a fireless cooker and a small grill, it is possible to do almost anything that a range can do. It must be remembered that the lamp-socket electric fireless occupies a negligible amount of space, about a tenth as much as a small range, and that it can be used in many places where a range could not. For families living in such conditions, and especially for professional households, it would seem more reasonable to remember the 98% of things that a fireless can do, rather than to attempt the very few frills that it was never intended to do.

Special booklets giving time schedules for cooking are usually provided by the manufacturers and if these directions are followed excellent results are obtained.

Photograph by The New York Edison Company

The Fireless Cooker as Part of the Electric Equipment in a Kitchenette

Back to Aladdin

"Insistent, incessant, these modern demands, I believe I shall try to decamp,
I want to go back to Aladdin," said the weary old Slave of the lamp.

"I made them all coffee for breakfast, I browned toast slice after slice,
I coddled the eggs, (hens' not rocs' eggs, but still eggs of fabulous price),
I sucked all the dust from the carpets, I polished the brass till it gleams,
I ran the machine for Miss Susie, the while she was sewing her seams
I washed a tub full of silk nothings, and ironed them while they were damp
All menial tasks for a Genius like me," said the weary old Slave of the Lamp.

"I heated the water and towels for my lady to have her shampoo,
I treated her scalp, and I patiently fanned till her hair was all dry through and through,
I warmed and massaged her old grandpa, who fancies he's getting the gout,
I played a full hour for the young folks to dance, I lighted the house, in and out,
Now I want to go back to Aladdin, a lazy and lovable scamp;
The leisurely East, not the strenuous West, is my choice," said the Slave of the Lamp.

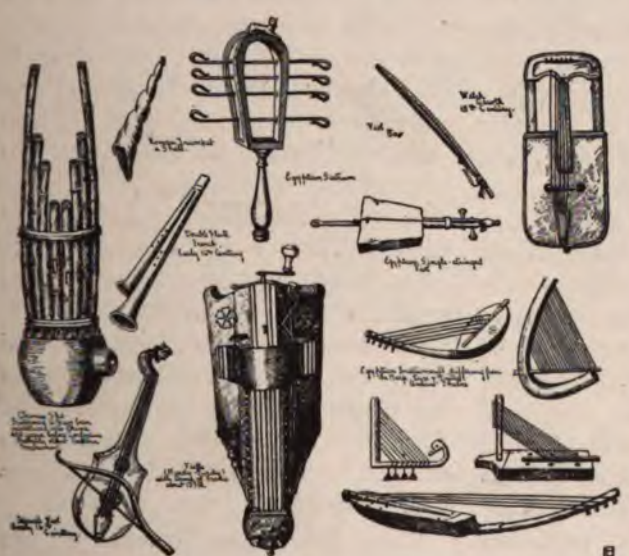
Edna A Collamore

To the Descendants of Jubal

FOR long ages before that eventful year from which our years are numbered, of all the arts, music had played the greatest part, the most intimate and dearest part in the lives of the people. That music was destined to have a great influence in the growth of man is indicated by the reference in the Fourth Chapter of Genesis, to Jubal, as "The father of all such as handle the harp and organ." With the gradual development of the human race, music and methods for its production have developed also. It is almost as though for every age in the advance of civilization there has been a corresponding advance in the art of music. It is not extraordinary then, this being the Age of Electricity, that electricity should in a measure have become prominent in the production of the music of our day. But this is another story to be told later but not until we have become acquainted with the various steps in the perfecting of musical instruments from the time perhaps when the pithecanthropi of the primeval forests screamed and howled in Darwinian chorus.

Not only have sculptures and paintings, and Biblical writings told the story of the musical instruments of ancient nations, but in many instances the actual instruments have been discovered in tombs and other places where, protected from the destroying influences of air and damp, they had remained almost unchanged during a marvelously long period. But the clearest idea of the gradual development of the art of music from its most primitive condition to that degree of perfection in which it at present exists may be best obtained by examining the musical instruments of contemporary nations in different stages of civilization.

Vocal music, regarded historically, takes percedence, by its antiquity over instrumental music and although there is no record of its origin, it is not unreasonable to presume that in some form or other it has always existed as a medium for expressing emotions beyond the reach of primitive speech. There are even at the present time a few savage tribes, which though possessing a number of songs, are almost unacquainted



Drawings by Edna Hood Lissak

Some of the Earliest of the Stringed Instruments

The "Field Music" of the Pharaohs

with any mechanical means of producing music. If they accompany their vocal effusions at all, it is only with the rhythmical sounds produced by clapping of hands or by beating pieces of wood together. Generally, however, the most uncivilized nations employ for this purpose some instrument such as the drum or rattle. It is an open question as to just when these, the most ancient of instruments were invented. We may safely presume that man walked before he sang. Probably by his regular cadenced footfall rhythm was suggested and then when he sang, his song was timed to his steps. Later when large groups sang in martial or religious procession it was found that a greater and more generally pleasing effect was obtained by definitely accenting the cadence to which their songs were adapted. This discovery naturally gave rise to the invention of the drum or rattle.

Rude wind instruments next make their appearance. The pipe of reed or wood capable of emitting one or two notes, was followed by the trumpet usually constructed of the rams horn in which a mouth piece had been cut. Next followed a combination of pipes such as the double pipe and the famous pipes of Pan. The Greeks claim that these were first made by their god Pan and by him were used to charm woodland animals and to strike unreasoning fear into the hearts of mortals. It is of particular interest in that it is the first instrument producing a series of notes of different pitch and therefore the first on which a melody or what might be called a tune could be played. Although as has been stated the Greeks claim the origination of these pipes, they are to be found among many savage tribes in different parts of the globe which claim in each individual case to have invented the instrument themselves.

Instruments composed of a series of pieces of sonorous wood which are made to vibrate upon being struck with a stick or hammer follow next. And then again the wind instruments consisting of a single tube but with fingerholes, the closing of which caused different sounds to be emitted from the one pipe.

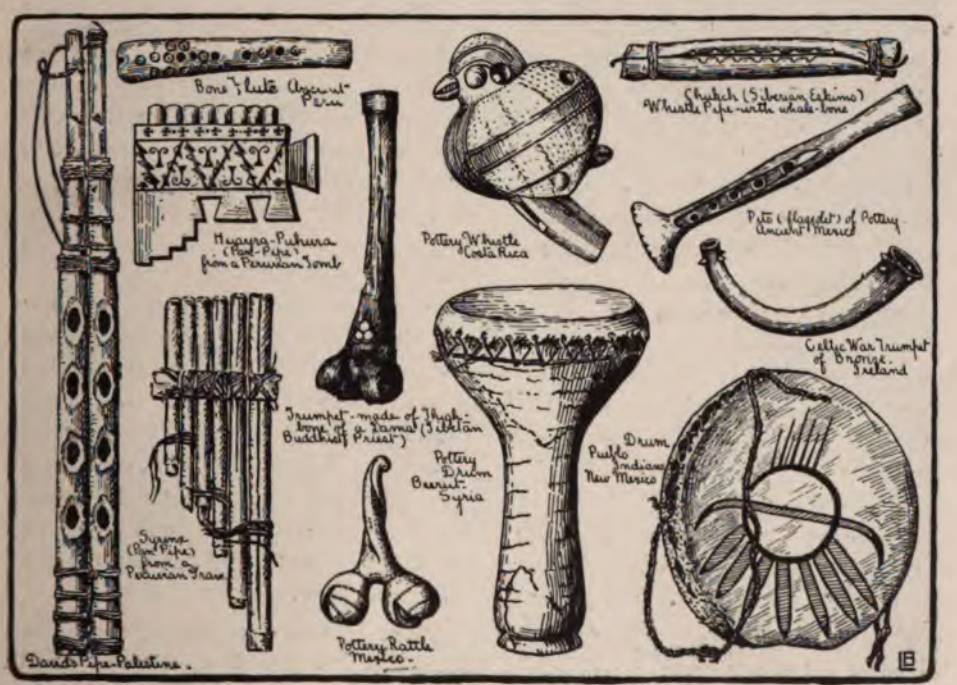
Greek tradition tells us that the god Hermes walking by the sea found a dead tortoise whose sun-dried intestines were stretched taut across the shell. He touched one and it gave forth a musical note. Then, it is said, he took advantage of this suggestion of nature and made a lyre. This story, pretty as it is, is hardly to be credited, because the Egyptians had harps long before Hermes' day.

These instruments however do not appear in the evolution of music until quite late, due perhaps to their delicacy

of tone and therefore lack of inspiring blood stirring quality found in the early drums and trumpets.

These stringed instruments naturally suggested those to be played upon with a bow, which originally was shaped much like the weapon used in the hunt and had only from two to four strings, these drawn taut. Later it was discovered that a great number of fine strings or hairs strung loosely on the bow produced a broader and fuller tone. So far as we know the Greeks and Romans had no stringed instruments played with the bow. The violin, the backbone of modern orchestration, probably descended from a three stringed fiddle called the ravanstron used by the people of India in the earliest times. From the ravanstron are supposed to have descended in succession the Egyptian rebab, the Mohammedan kermangeh, the Scandinavian guddok and the Anglo-Saxon rotta. From this came the viol and finally the violin. The whole process of evolution occupied five thousand years.

From these early beginnings, keeping pace with Man's advance, the art of music and its production gradually developed. The organ, child of the pipes of Pan, came into being and forever after has been the great medium for sacred music. The piano probably originated in the series of wooden blocks struck by hammers. These two great instruments at the advent of what has already been referred to as the Age of Electricity were of all others the least perfect. How they have developed in the last hundred years and what the future may have in store in the way of further developments of musical instruments with the aid of electricity will be dealt with in a subsequent article.



David's Pipe and other Ancient Musical Instruments

A display room which is at the same time being used as a waiting room, where the actual demonstration of the smaller electric appliances can be made, is an innovation of the Comstock Household Service, 21 East 40th Street. As customers enter, they are impressed with the dainty appearance of the room, and its soft tones and hangings which give a most home-like atmosphere. Large household appliances are displayed in another room opening from this one

The Morison Electric Supply Company recently opened a new business at 15 East 40th Street in the district of architects and engineers. The attraction of this store is its airy and roomy appearance, and yet every inch of space is utilized without conveying the least impression of overcrowding. The appliances in the show cases are well displayed as are also those in the attractive show window

Manufacturers and Agents (Continued from Page 100)

Motors

Inspection—Maintenance—Repairs (Cont'd)

Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—48 East 8th St
Cutter F B Co—50 Church St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Klein & Co—208 Centre St
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Florandin & Co Chas H—110 West 40th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St

Signs Electric

Bofinger Bros—146 East 42d St
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L (Flexlume Sign Co)—560 Seventh Ave
Universal Elec Stage Lighting Co (Kliegl Bros)—240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 ChurchSt
Betts & Betts Corporation—511 W 42d St
Reynolds Elec Co—1123 Broadway

Specialties

Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers)—1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes)—114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn

Manufacturers and Agents (Concluded)

Switch and Distributing Boards (Concluded)

Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Household Service—21 E 40th St
Duntley Products Sales Co—295 Fifth Ave
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Lightolier Company—569 Broadway
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Vacuum Muenzen Specialty—131 W 42d St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Comstock Household Service—21 East 40th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Jorgensen John—114 Liberty St
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers) —11 E 42d St
Hurley Machine Co—147 W 42d St
Lightolier Co—569 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Northwestern Electric Equipment Co (Geyser) —35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)— 119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Latham E B & Co—4 Murray St
Leveridge Chas W—133 Liberty St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Fox Electrical Corporation—119 W 42d St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Killoch David Co—57 Murray St
Leahy John J—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Nugent Electrical Supply Co—7 W 29th St
Public Electrical Supply House—62 Essex St
Royal-Eastern Elec Sup Co—114 W 27th St
Smith J M & Son—4 East 8th St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Sankard
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Centre St 231—Liebov Chas
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 92—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1170—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 8th St 48—American Pressing Iron Co
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker National Fire Prevention Engineering Company
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—Nichols & Judson
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co

Wiring and Installation Contractors (Concluded)

Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 81st St 229—Edward Zenker
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
Park Ave 1630—Wimpie Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
East 201st St 261—Leonard B Fox
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East Fordham Road 11½— S W Mills
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Union Ave 767—Henry Cohen
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 9—The Yonkers Electric Light & Power Company
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barrow St 25—Jos Torre
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beaver St 45—Welborne & Co
Beekman St 96—Naumer Electric Co
Bleecker St 122—A Epstein
Broad St 68—Broad Equip Co of N Y
Broad St 88—S F Haddad
Broad St 122—Stewart-Dickson & Co Inc
Broadway 1—William Vautin
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Electric Co
Broadway 302—Harry Weinstock
Broadway 320—Standard Electricians & Mill Wrights
Broadway 335—Monowatt Elec Import Co
Broadway 383—A Edelman
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 257—J & C J Ernest
Canal St 261—Stransky Mfg Co
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 392—Welsbach Gas Lamp Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 196—Max Zuckman
Centre St 231—Worth Electric Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Chatham Square 2—Louis Abrahams
Church St 30—Wm Braun
Church St 30—H P Copeland
Church St 30—P A McGuire
Church St 50—F W Collins
Church St 50—Standard Drug Co
Church & Vesey Sts—Metropolitan Hardware Co
Cooper Square 10—Philip Addison
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin
Cortlandt St 39—W S Broadhurst
Cortlandt St 42—Terminal Cycle & Sporting Goods Company
Cortlandt St 70—W R Pabst
Cortlandt St 84—Bleyle Electric Co
Dey St 48—John J Leahy
Dey St 62—A E Gelling
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 62—William E Williams
Front St 124—Charles Davidson
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—H D Perlman
Fulton St 110—Marlen Hdwe Co
Fulton St 235—American Elec Technical App Co
Fulton St 248—Williams & Wells Co
Gold St 13—Anderson & McKenzie
Gold St 46—Van Axen Elec Co
Grand St 162—Adam Kalb
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Sankard
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 185—Weint Electric Co
Greenwich St 255—G M Ross
Greenwich St 460—A F Beckman & Co
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 84—Alfred Whiteley Inc
John St 99—T Frederick Jackson Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 95—John W Hooley
Liberty St 114—Equipment Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Chas W Osburg Co
Liberty St 123—Smith-Meeker Eng Co
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 91—Weber & Jones
Maiden Lane 100—Grab-Gamsby Hdwe Co Inc
Mercer St 15—Mogul Elec Sup & Cont Co
Mott St 44—Quong King Long Co
Murray St 4—E B Latham & Co
Murray St 23—Stanley & Patterson
Murray St 37—Fensterer & Ruhe
Murray St 43—Conlan Electric Co

Authorized Mazda Lamp Agents (Continued)

Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 140—Reid-Yeomans & Cubit Inc
Nassau St 145—N Y Supply & Inspection Co
Nassau St 154—Minato Honga Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 15—United Adjustment Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 116—Kelting Electric Co
Pearl St 39—Commercial Construction Co
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 69—DeVincent Casale
Sixth Ave 81—H & F Metzinger
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Sullivan St 29—Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Vesey St 59—L Gabler & Sons
Vestry St 35—Northwestern Electric Equip Co
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 97—Wm E Glaeser
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
West Broadway 176—O M Matzen
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 487—J Ash Sewing Machine Co
West Broadway 490—X-L Machine & Elec Co
West Broadway 491—Acme Machine & Motor Co
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West Houston St 20—Stein Manufacturing Co
West St 90—Peters & Peters Inc
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
Whitehall St 26—Reilly & Guy
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
Wooster St 33—Paul Silverstone

East Side District

Avenue D 2—The New Interboro Electric Co
Avenue D 53—Barnett Rosenberg
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Sup Co
Bowery 147—N Hirschfeld
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 283—Dulberger Sup Co
Bowery 304—Samuel Frost
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 327—N Y Gas Light Co
Chrystie St 155—M Powell
Delancey St 25—Wm H Blank
Delancey St 188—Louis Boritz
Division St 87—Soffen Brothers
Division St 133 Lincoln Cont Co
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 104-6—J Reimer
East Houston St 170—D Stein
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 69—Edison Fixture Co
East 4th St 75—Charles Lipschultz
Essex St 62—Public Elec Supply House
Forsyth St 96—J Cohen
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 182—Ben Goldberg
Ludlow St 69—Chas I Silberman
Ludlow St 144—Louis Yuster
Monroe St 11—Anglo Amer Elec Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Rivington St 265—M Franzblau
Second Ave 24—Crawford Elec Cont Co Inc
Second Ave 73—J Brown

Irving Place District

Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1133—Electrical Consumers Adjustment Corporation
Broadway 1155—Empire Electric Co
Broadway 1161—Antler Elec Co
Broadway 1170—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 10th St 30—Spero & Cohen

Authorized Mazda Lamp Agents (Continued)

East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 11th St 2—Ohm Electric Wks Inc
East 13th St 34—A L Todd
East 14th St 7—William Landau
East 14th St 10—Acme Electric Co
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert nc
East 17th St 3—Fruhling Art Light Co
East 17th St 8—Metropolitan Elec Lamp Co
East 17th St 102—Chas Cordts
East 18th St 509—Leo Procknick
East 22nd St 20—Schultz Electric Co
East 22d St 27—Consumers Elec Lamp & App Co
East 22d St 27—Charles Elec Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—William Fredericks
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 8—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 49—Nathan Garber
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 334—Wm Purdy
Fifth Av 63—Edison Lamp Service Co Inc
Fifth Ave 75—H M Walter
Fifth Ave and 26th St—Park & Tilford
First Ave 312—A Koppeman
Fourth Ave 01—Starobin Elec Sup Co
Fourth Ave 108—I Gluck
Fourth Ave 110—B H Turecan & Co
Fourth Ave 121—Borough Elec Co
Fourth Ave 125—A Wangerin
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 30—Goldberg & Rubenstein
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Seventh Ave 182—M Miller
Seventh Ave 89—E Christensen
Seventh Ave 219—Subway Hardware Co
Seventh Ave 228—Guarantee Electric & Pressing Iron Company
Seventh Ave 296—B Adler
Sixth Ave 164—McGeady & Mabs
Sixth Ave 182—Geo H Bingler
Sixth Ave 183—M A Karp
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 431—Siegel & Rittner
Sixth Ave 448—Irving Trubitz
Sixth Ave 45 —Stromberg & Levin
Tenth Ave 239—I P Frink Inc
Tenth Ave 246—Robert F Hitchman
Third Ave 182—Metz-Solars & Co
Third Ave 184—Henry Green
Third Ave 238—G & P Elec Supply House
Third Ave 384—D B Pershall & Son
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 52—Insel & Wagner
West 13th St 107—Dale Lt Fix Co
West 14th St 232—Wm H Crary
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 16th St 4—Central Elec Supply Co
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 21—Rambam & Rosenberg
West 17th St 48—Beidner Elec Co
West 17th St 105—Manhattan Elec Ltg Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 27—Lighting Eng Service Co
West 19th St 8—Biglow & Moffatt
West 19th St 40—Lewis Harbitter
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 27— mport Sales Co
West 20th St 120—Reliable Sewing Machine & Electric Co
West 21st St 4—Janover Electric Co
West 21st St 1 7—Morris Gika
West 21st St 162—Chelsea Elec Motor Rep Co
West 23rd St 235—Eastman Kodak Co.
West 23rd St 24 Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Geo Ehrlich
West 24th St 105—Samuel Vogel
West 25th St 117—Eastern Elec Contracting Co
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Authorized Mazda Lamp Agents (Continued)

Forty-second Street District

Broadway 1358—Siems & Co
Broadway 1368—Arrow Elec Cont Co
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1409—A & A Electric Co
Broadway 1416—Elec Service Eng Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
Broadway 1717—N Y & Brooklyn Auto Sup Co
Broadway 1743—Times Square Auto Sup Co
East 29th St 34—Albin Gustafson Co
East 29th St 41—S K Kline
East 30th St 2—Simpson Electric Co
East 30th St 8—Electric Magnet Co
East 31st St 8 10—Sussman & Sussman
East 32nd St 19—R E Leve
East 34th St 144—S W Elec Co
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 42nd St 146—Bofinger Bros
East 42nd St 236—Hoffman & Fischbach
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 3—Walsh Elec Sup. Co.
East 47th St 17—Black & Boyd Mfg Co
East 52nd St 19—White Allom & Co
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 712—G Walker & Sons
Eighth Ave 882—Nichols & Judson
Eighth Ave 903—Chas Weinz
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 347—B & B Sign Co
Fifth Ave 417—Underwood & Underwood Inc
Fifth Ave 489—Heath & Kantack
Fifth Ave 503—A W Haire
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave 331—Herz Pharmacy Co
Lexington Ave 589—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Madison Ave 361—Tiffany Studios
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 619—Frankle Alffias
Madison Ave 631—Electrical Stove Co
Ninth Ave 314—G C Bowers
Ninth Ave 604—Geo Unsold
Ninth Ave 630—Nathan Marks
Ninth Ave 767—Isidor Brand
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Seventh Ave 358—Bazaar Franko American
Seventh Ave 468—Bank Elec Co
Seventh Ave 515—Van Beuren & N Y Bill Posting Company
Seventh Ave 560—L L Strauss
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 496—Seigel & Mittenthal
Sixth Ave 636—Fred B Zender
Sixth Ave 657—Office Supply Co
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 947—John W Flint
Sixth Ave 982—Ed Nicholson
Sixth Ave 1093—Mt Morris Auto Sup Sta
Tenth Ave 672—J G Gloecker
Tenth Ave 755—H F Lutters
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co
Third Ave 767—Otto Fuchs

Authorized Mazda Lamp Agents (Continued)

Third Ave 918—Sidney Frey
Third Ave 959—Rabinowitz & Kluger
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 29th St 162—Jaffer Electric Co
West 30th St 56—Henry Drezler
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 151—Alpha Electric Co Inc
West 30th St 208—Kissell Co
West 31st St 14—Charles Campbell
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Company
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 32nd St 130—W F Irish Co
West 33rd St 221—E J Elec Installation Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 34th St 210—Harry B Sommers
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 36th St 126—Metropolitan Elec Sup Co
West 37th St 54—Roeser & Heidelberger Inc
West 37th St 55—Eastern Elec Works
West 38th St 47—S W Jawitz Co
West 40th St 105—Publicity Clock Co
West 40th St 143—Smith Elec Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 232—Paramount Elec Const Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 48th St 6—Duplexalite Corp
West 48th St 244—M Schweiger & Co Inc
West 48th St 415—Fisch Elec Sign Co
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52d St 136 Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 74th St 204—Jos Rappaport
East 77th St 149—L Segalbaum
East 84th St 158—Gabriel Erdos
East 86th St 341—L S Metzger
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1576—Joseph Corak
First Ave 1678—Frederick Barton
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1398—M Behm
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 588—T J McGunnigle
Park Ave 1086—S Littman
Park Ave 1124—John B. Schramm
Park Ave 1222—Modern Health Pharmacy
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1838—P Stein
Second Ave 2033—Rosenthal & Rosen
Third Ave 1055—F Gretzer's Sons
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Jas Gear

Authorized Mazda Lamp Agents (Continued)

Third Ave 1195—Harry Goldman
Third Ave 1286—F & B Electrical Co
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1460—Circle Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1501—M Eberhart & Son Co
Third Ave 1545—N W Altman Co.
Third Ave 636—Benjamin Phillips
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 97—Max Weiss
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 326—I H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 5 1—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 618—J Schirackson
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—B Murphy
Amsterdam Ave 941—Julius C Belmonte
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Marcus & Klein
Amsterdam Ave 1084—F W Fehling
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1463—B S Lutz
Amsterdam Ave 1641—Gold Rose Hardware Co
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1834—Trop Specialties Co
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1939—Bull DuRoy Elec Co
Broadway 1987—King Tire Co
Broadway 2035—S A Friedman
Broadway 2104—Modern Ltg Co
Broadway 2142—C B Montagriff
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2286—P J Mulcahy
Broadway 2299—M J Kane Inc
Broadway 2304—J F Driscoll
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 112th St—Park & Tilford
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3181—Dorb Drug Co
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 144—E May Inc
Columbus Ave 171—N Vincenzi
Columbus Ave 189—B & C Electric Co
Columbus Ave 196—Columbus Elec Co
Columbus Ave and 72d St—Park & Tilford
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 592—R C Spencer
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Sup Store
East 112th St 173—Behl Electric Co
East 115th St 58—M S Rosenfeld Bros
East 116th St 204—Empire Gas & Elec Fix Co
East 125th St 17-19—F J Rush
East 125th St 48—Irving Bropp
Eighth Ave 2090—R M McCutcheon & Co
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2371—West End Bee Hive
Eighth Ave 2441—A E Jackson
Fifth Ave 1410—S J Eisner
Fifth Ave 1442—Julius Adler
Hancock Place 3—National Combination Gas & Electrical Fixture Company
Lenox Ave 22—Morris Perla
Lenox Ave 151—Louis Saphier
Lenox Ave and 26th St—Park & Tilford
Lenox Ave 403—Lenox Elec Co

Authorized Mazda Lamp Agents (Continued)

Lenox Ave 468—Frank & Meyers
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1889—Gristede Bros Inc
Second Ave 2236—A Freeman
Second Ave 2250—Samuel Kapner
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2021—Jacob L Kramer
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 114th St—H A Tomashoff Inc
St Nicholas Ave 1422—Manhattan Lamp Service Co
St Nicholas Ave 1368—Le Mar Supply Co
Third Ave 2098—Iron Spec Co
Third Ave 2352—Chas Mann & Co
West End Ave 165—F W Astarita
West 61st St 16—Asch & Co Inc
West 66th St 161—Leo Strus
West 72nd St 172—John B Campbell
West 72nd St 176—Kaufman & Burkert
West 82nd St 221—Gertler Elec Co
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 125th St 125—I Davega, Jr
West 125th St 125—L Davega Inc
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—E A Briggs
West 125th St 215—M J Heller Elec Co
West 126th St 301—C O Alberga & Co

Bronx (Melrose District)

Brook Ave 172—S Dworkin
Brook Ave 520—M Goldman
Courtlandt Ave 554—A M Vignali
Courtlandt Ave 606—E Kraemer
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 358—Weber Supply Co
East 152d St 726—Joseph B Josephson
East 155th St 392—Joseph Mancusi
East 161st St 615—J F Smith
East 163rd St 736—Sales Electric Co Inc
East 163rd St 965—Isidor Schohan
East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—Max Finkelstein
East 167th St 460—M Scharzler
East 169th St 535—B Weiss Electric Co
East 169th St 557—Bethlehem Hardware Co
East 169th St 638—Max Berminer
East 170th St 163—Edison Contr & Lamp Co
Forest Ave 947—Ed Gorodess
Freeman St 879—L Drescher
Hunts Point Ave 895—Max Maged
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 950—Louis Gladstein
Longwood Ave 972—Adolph Greenblat
Melrose Ave 558—Hub Elec Supply Co
Melrose Ave 776—Ed O Steinoch
Park Ave 4206—Hugh J Casey
Prospect Ave 631—Max Fertig
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1074—Rapid Elec Cont Co
So Boulevard 1308—Louis I Waldman
So Boulevard 1319—Jacob Katz
So Boulevard 1327—A Dressner
St Ann's Ave 342—S Wishnevsky
Teller Ave 899—George Venney
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2718—A L Biltchick
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Guiland
Third Ave 3000—A A Busch
Third Ave 3151—We Lektrify U Corp
Third Ave 3277—W D Saunders
Third Ave 3414—J Sohapiro
Third Ave 3440—Frank Sladek
Third Ave 4239—Northern Gas & Elec Fix Co
Tiffany St 1115—Elias Austin
Union Ave 767—Henry Cohen
Washington Ave 937-1037—M Regelson
Washington Ave 1226—Leopold Altman
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Electric Cont Co
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias
Willis Ave 478—M P Weintraub

Bronx (Tremont District)

Boston Road 1304—Mayo Lighting Fix Co
Boston Road 2017—H Von Hadeln
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co

Authorized Mazda Lamp Agents (Concluded)

East Fordham Road 338—H & M Bloom
East Fordham Road 374—Louis Grossman
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 447—Shipman Stationary Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 755—Becker Bros
East 180th St 554—A Feig
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 184th St 531—George Kohn
East 201st St 261—Leonard B Fox
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2423—J Wollak
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
So Boulevard 1881—Louis Flatau
Stebbins Ave 1142—Walshin Bros
Third Ave 3710—Adolf Birnbaum
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2004—J M Boles
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 231st St 165—Louis Grossman

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway District—424 Broadway
East Side District—124 Essex St
Irving Place District—10 Irving Place
Forty-second Street District—124 West 42d St
Eighty-sixth Street District—151 East 86th St
One Hundred and Twenty-fifth Street District—15 East 125th St
Bronx (Melrose District)—362 East 149th St
Bronx (Tremont District)—Tremont and Monterey Aves

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

C—Commercial I—Industrial P—Passenger

Anderson Electric Car Co of N Y (Detroit Electric)—Central Park West at 62d St (C & P)
Atlantic Elec Vehicle Company—30 Church St Suite 422 (C)
Automatic Transportation Co—258 B'way (I)
Baker R & L New York Corporation The—Central Park West at 62d St (P)
Buda Co of Chicago—30 Church St (I)
Comm'l Truck Co of America—405 Lexington Ave (C)
Couple Gear Co—(Clarence L Smith Co Agents) —544 W 30th St (C)
Cowan Truck Co—51 East 42d Street (I)
Electro Coach Corp—50 Church St (Busses)
Elwell-Parker Electric Co (Lucian C & G W Brown Agts)—50 Church St (I)
General Vehicle (Walker Vehicle Co.) — Grand Central Terminal Room 3709 (C)
Healey & Co—1662 Broadway (P)
Hoagland-Thayer Inc—300 Washington Street Newark N J (I)
Hunt Co C W Inc—501 Fifth Ave (I)
Koppel Industrial Car & Equipment Co—30 Church St (I)
Lakewood Engineering Co—111 Broadway (I)
Lansden Co Inc The—50 Church St (C)
Lansing Co—492 Broome St (I)
Mercury Mfg Co—(Truck & Tractor Co Agents) 25 Church St
Milburn Light Electric Co H J McLeer, Factory Representative—725 Ocean Parkway B'klyn
Northwestern Mfg Co—6 Church St
Walker Vehicle Co—Grand Central Terminal Room 3709 (C) (General Vehicle)
Ward Motor Vehicle Co—5736 Grand Central Terminal Bldg also Mt Vernon N Y (C)

Charging Apparatus

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Milburn Wagon Works, Auto Div (P) Toledo, Ohio
Northwestern Electric Co The—1457 B'way
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Charging Apparatus for Ignition, Starting and Lighting Batteries

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St,
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Lincoln Electric Co—149 Broadway
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Electric Co—110 West 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Electric & Manufacturing Co—165 Broadway
Witherbee Storage Battery Co.—643-9 West 43rd St.

Electric Garages

Acker Merrall & Condit Co—536 W 46th St (C)
Edison Storage Battery Co—247 W 35th St (C)
Exide Battery Depots Inc
East Side Garage—141 E 25th St (C)
North Side Garage—West End Ave & 64th St (C)
West Side Garage—527 W 23d St (C)
International Motor Co—252 W 64 St (C)
Electric Garage The—Central Park West & 62d St (P)
474 West 130th Street Garage Inc The—474 W 130th St (C)
Willett's Garage—15 E 58th St (P)
Wright's Garage Inc—18 Audubon Place (P)

Manufacturers and Agents (Continued)

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St

Buffers—Polishers

Barker John H—95 Liberty St
Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadwav
Western Electric Co—151 Fifth Ave and 105 W 40th St

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electric Corporation (Rapid Dish Washer)—119 W 42d St
Livingston, J & Co—104 E 41st St
Phillipson Emil—110 W 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf)—303-305 Fifth Avenue
Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Morison Electric Supply Co—15 E 40th St
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadwav
Elevator Supplies Co Inc—1515 Willow Ave Hoboken N J
General Elevator Co—29 Broadwav
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)

Manufacturers and Agents (Continued)

Elevators—Dumbwaiters (Concluded)

Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Company—151 Fifth Ave & 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bohn C C Electric Co—820 Sixth Ave
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Cincinnati Specialty Mfg Co—39-41 Cortlandt St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morison Electric Supply Co—15 E 40th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Penn A C—Singer Building
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Roeser Studios Inc—58 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way
Western Electric Co—151 Fifth Ave and 105 W 40th St

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St

Manufacturers and Agents (Continued)

Globes—Reflectors (Concluded)

Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY
Western Electric Co—151 Fifth Ave and 105 W 40th St

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Dover Mfg Co—30 Church St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark Messrs—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom, Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Livingston J & Co—104 E 41st St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Grand Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
C & C Electric & Mfg Co—110 W 40th St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
Livingston J & Co—104 E 41st St
Mechanical Appliance Co (Watson)—39 Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Motors Co—149 Broadway
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wald Electric Motor Co—40 W 4th St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Bohn C C Electric Co—820 Sixth Ave
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const & Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6 E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave

Lists Continued on Page 157

November 1919

Wall Street in 1644

December 1919

VOLUME 11 NUMBER 5

CONTENTS

The Edison Directory

	Page
Department Stores	129
Manufacturers and Agents	129-131, 156-157
Wiring and Installation Contractors	158-159
Authorized Mazda Lamp Agents	160-168
Edison District Offices with map	Inside Back Cover

The Edison Monthly

Editorial	134
On Broadway	135
Force (verse)	138
Current Music	140
Edison Visits New York (photograph)	143
The Electrical Show of 1919	144
The Electrical Loaf	149
Engine No. 6 P. F. D.	150
Changing the Sky Line	152
The Lights (verse)	155

Copyright 1919, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Lewis B Gawtry, Secretary

With a number of great office buildings planned, and in some cases actually under construction, and with many old type buildings being remodelled into apartments of various sizes, the building industry in New York shows decided signs of increasing activity in spite of the still unsettled internal conditions.

The new National Association Building, erected in conformity with the City's Zone Law regulating building height will be ready for tenants during the winter, while down at the lower end of Broadway, the foundations for the new home of the Cunard Line are being placed. As a building alteration made necessary by present day demands, the remodelling and enlarging of the Ormonde on upper Broadway ranks in magnitude almost as a new building operation.

In the Association and the Cunard Buildings, Edison Service is to be used for all the electrical needs, the decisions in favor of the Central Station being reached only after careful consideration had been given in each case to the claims of the private generating plant. In the Ormonde alteration, the generating plant which up to the present has been depended upon, is now to be discarded.

Almost without exception, the new buildings in the City provide for Central Station service. A constantly increasing percentage of old structures are abandoning their private generating plants in favor of the more efficient and economical Edison Service.

The 1919 Electrical Show, held last Fall and described elsewhere in this issue, marked the resumption of this annual feature of New York's commercial and industrial expositions.

The display was made up very largely of appliances for service in the home, and in view of the unsettled conditions in most homes where it has become an impossibility to secure people to perform the customary household tasks, it is not strange that these exhibits made a very strong appeal to show visitors.

It is almost impossible to tell which type of appliance attracted the greatest attention. Small families, living in remodelled apartments without the usual kitchen, wanted to see grills. Grills, they had heard, made a most satisfactory substitute for a kitchen range, and they had no kitchen anyway. Families living in private houses and accustomed to the help of servants wanted to know more about the heavy duty equipment, and to these servantless families, the washing machine, the ironing machines and the irons, the vacuum cleaners, and the various kitchen appliances, made a strong appeal.

It is certain that visitors found much at the Electrical Show to help solve their home problems. That the exhibitors found the Exposition equally helpful is seen in the numerous requests for space in the 1920 show, that have already been received.

On Broadway

THE hurrying throngs that make Broadway one of the busiest streets in the world would find it hard to believe that it was once an Indian trail and one of the main travelled roads of the savages. It is today the longest street in the world ending, as it does in Albany, more than one hundred and fifty miles from its start. What is stranger still, through all this prodigious length, it is for the most part paved and lighted the whole distance. Occasionally between some of the lesser villages along the Hudson it lapses into its aboriginal wilderness, but not for long. In a few minutes a lamp-post appears, then stone flagging followed by trolley tracks. And in a moment it reappears as the main street in some bustling town filled with well lighted stores and with some resemblance in its bustle and activity to its prototype on Manhattan Island.

And always it is Broadway. The Dutch called it Der Heere Straat—the Great High Way—which the English promptly changed to the Broad Way and finally to the name as written today. Beyond St Paul's, before the Revolution, it was called St George's Street. That finally gave way to the old name and as the street was gradually extended the name was continued till it came to 23rd Street. At that point it joined a well-known thoroughfare leading to a well-known village of the same

Illustrations by Courtesy Valentine's Manual

A Traffic Jam in Front of the Fifth Avenue Hotel in the Early '90's. Cable Car, Farm Wagon, Horse Car and Stage, Dispute the Right-of-Way With Not an Auto in Sight

name—Bloomingdale, and for a while it retained the old-time nomenclature and was known as Bloomingdale Road. Beyond Sixteenth Street and running north to its farthest extension it was called the Boulevard. Many of us can remember that for it was not so many years ago. But in time these names too, succumbed to the all pervading power of Broadway.

Someone was always putting an end to Broadway. It "ended" originally at St Paul's Church, later at the high hill just beyond Chambers Street, and finally at Tenth Street. Grace Church was erected there and for years stood "at the head of Broadway." Still, in a very short time Broadway made a little curve to the west thus avoiding Grace Church and resumed a triumphant march uptown which has never since suffered any interruption.

Just beyond Van Cortlandt Park where the subway ends, the old street continues on its way serene and unruffled and enters Yonkers. There is nothing to indicate that Broadway, New York, is any different from Broadway, Yonkers. It is the same asphalted street, lighted by the same electric lights. The great High Way, however, has left the seething millions of Manhattan and is apparently in search of a quiet walk amid pastoral scenes. Glimpses of the noble Hudson may now be had at intervals; green fields stretch lazily before it and Broadway ambles along contentedly.

Strange to relate, Broadway was by no means the most popular street in town in the days of the earliest settlers. The wall hemmed it in at Trinity Church. Beyond that a mere foot path, used principally by the farmers driving their cattle to and

Laying the Tracks for the Broadway Cable Cars

from the Common or Pasture Lands (now City Hall Park), was all that gave a hint of its coming greatness. When the wall was removed traffic rapidly increased. At Park Row it connected with the road to Boston and this apparently was its first successful bid for popularity and for a time seemed to be the only excuse for its existence. Very soon however, it slowly but surely began to come into its own as the main street in the village.

The fort at the beginning of Broadway where the Customs House now is, contained all there was of court life in the little town. That was considerable in a sense. English war vessels were constantly anchoring in the harbor. Representatives of the Crown lived on the west side opposite the fort and the street began soon to show its quality. One or two houses that had been built outside the wall were replaced with residences. The Shoemakers Pasture which ran from Maiden Lane to John Street, the

Rope Walk about where the Woolworth Building now stands, both disappeared and more houses took their place. St Paul's Chapel was built, and, a little to the northwest, ground was broken for a new seat of higher education which was to be called King's College. Altogether Broadway and its immediate neighbors were evidently going to be of a much higher social standing than anyone had yet deemed possible, and the old time cattle trail to the pasture lands began to assume an aristocratic air strangely out of keeping with its original humble surroundings.

The east side in Dutch times and apparently for some time after never approached the west side in point of material respectability in the size or character of its buildings. After the great fire of 1776 which practically wiped out both sides from Morris Street up to St Paul's, this same peculiarity is noted. Rough wooden shacks sprung up, tenanted largely by blacksmiths, horseshoers and repair shops of one kind and another; while the opposite side continued the standard established by the Kennedy, Watts and Livingston houses at numbers 1, 3 and 5.

No 1 Broadway is noted for a very remarkable career of stability in this street of changing titles. It has had only three different structures built upon it. A Tavern in Dutch days was kept by Peter Kocks and later by his wife. Peter was an active leader in the Indian War of 1643, and his little tavern bore the buffets of time for a century before it gave way to the Kennedy House, a mansion in its day and one of the most noted of its time. It was the headquarters of the British officers during the eight years the British occupied New York. Later on it was occupied by the City's most eminent banker, Mr Prime of Prime, Ward & King, the J P Morgans of their day. The old house stood till the '80's when Cyrus

Broadway and Canal Street in 1835 Presented an Interesting Variety of Small Town Activities

Field tore it down to erect an office building which for years was the tallest as well as the largest building in New York. He named it the Washington Building under the impression that the preceding structure had once been Washington's Headquarters. Such was not the case, although the old hotel which occupied the Kennedy House before its destruction did carry a sign saying it had been Washington's Headquarters. Even now, with extensive alterations planned for the Washington Building, enough of the original structure will probably be left, to maintain the tradition of permanency of which this site seems rather proud.

The east side of the street, however, was destined to achieve fame of a kind and in a way that will forever atone for its early poverty and obscurity. In 1884 Bradford Lee Gilbert constructed at No 50 the first building of the modern steel skeleton construction. In speaking of this to his friends years afterwards Mr Gilbert said the idea came to him in a dream. However that may be, the new construction has had a greater influence on New York architecture than almost any other development on record. It has caused New York to grow up in the air instead of along the ground.

Whole villages can now be housed in one of these modern skyscrapers, and subject to zone law restrictions there seems no limit to the height that may be achieved. Gilbert changed the sky-line of New York. He caused old Trinity Church, that had stood for two hundred and fifty years as the most prominent landmark on the island—that was the first thing looked for by the mariner approaching New York and the last sight on which the eye of the departing traveller lingered—practically to disappear. And at the same time he has put so much metal in New York that navigators, so the story goes, have to readjust their compasses whenever they come in sight of the City.

It was at about this time that Thomas Edison was giving to New York its first taste of electrical service, for when Field built his sky-scraper Edison's central station was in its second year. The development of tall buildings and the development of electricity have gone on apace. Each has meant much to the other, for without electricity high buildings and their elevators and many service requirements would be impossible. At the same time it was the meeting of these requirements that spurred on Central Station development.

Today, Broadway, from the Washington Building at the south, to its northernmost sky-scraper, the U S Rubber Building, with countless apartment buildings beyond, is typical of the New York avenues which depend in such large measure on Edison Service for their electrical needs.

Force

Make way for Force!
Mighty
Irresistible
Implacable!
Rolling
As it will,
Pushing
The puny
Off the map
In the name of
Progress!

Don C Seitz

Photograph by The New York Edison Company

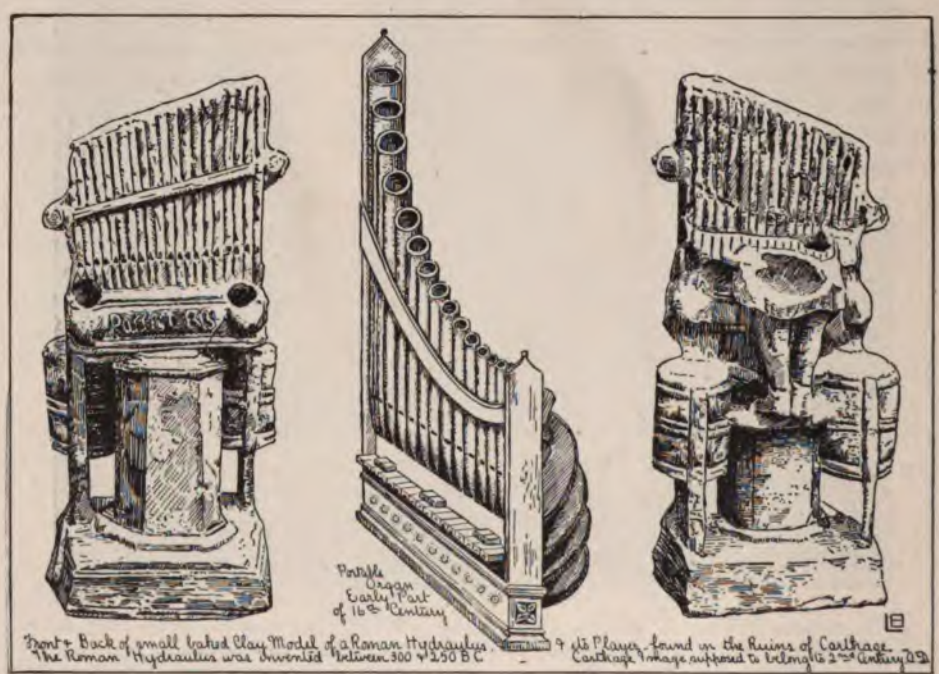
The Crossing of Broadway and Fifth Avenue Today Is Far Different from that of the 90's. In this View there is Not a Horse to be Seen, while Thirty Years ago the Horse Dominated the Picture

Current Music

IT is generally and justly admitted that in no other branch of the art of music has greater progress been made during the past century than in the construction of musical instruments. In a number of cases it almost seems as though furthur progress were impossible, the instruments having been brought to such a fine degree of mechanical construction and perfection of tone. The violin in particular seems to offer no possible room for improvement. The piano and the organ have also developed wonderfully during the past century. Of these the development of the organ has been most interesting.

It is hardly necessary for the purpose of this article to enter at length into the early history of the organ, and trace its evolution from the pan-pipe, bag-pipe, and instruments of such nature, mentioned in a previous article. The history of the organ properly begins at a time when mechanical means for supplying the wind were first used and this date is far back in ancient history. It is said that in about the year 250 B C, Atisibius, a native of Alexandria, built a hydraulic organ.

In the tenth century a great organ was built in the old church at Winchester, that could be heard all over town. It was worked by "Two brethren of concordant spirit" and the tone "reverberated and echoed in every direction, so that no one was able to draw near and hear the sound but had to stop with his hands, his gaping ears." At this time the organ was not a solo instrument except to

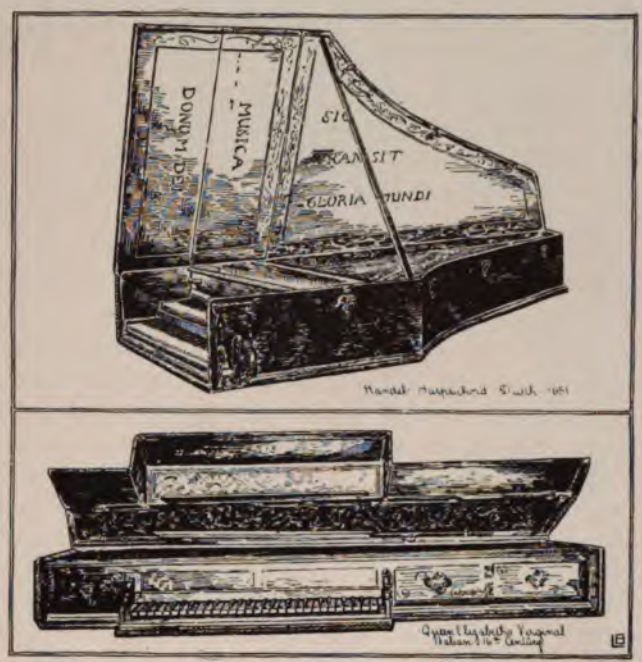


Drawn by Edna Hood Lissak

Great Ancestors of our Modern Organs

the extent that when it was being played nothing else could possibly be heard.

Levers with which the organ was originally played developed into the key board of which the first specimens contained from nine to eleven keys, each from five to nine inches wide. To play these old organs sometimes as many as six men were required. Of these one did the playing and the others worked the great bellows. The organist struck the keys with his fists or elbows.



Can you Imagine Handel's Largo Played on such Instruments as these?

During the fourteenth century keyboards grew. More gentle methods of playing came into being, and fingers were used instead of fists. These improved organs made possible the skilful organist, and he in turn developed new capacities in the instrument. The ecclesiastical drudge was finally emancipated from the operation of the organ and playing became an art.

In America the first electric-action organ is said to have been one built by Roosevelt for the Centennial Exhibition in Philadelphia. Little or nothing was done with the electric action, however, from that time until 1890 when Hope-Jones, the English organ builder, erected an instrument at Taunton, Mass.

The greatest advance in organ building has been made in this country where everything has been in a progressive state. New churches, new halls and new organs are being built constantly, and many magnificent instruments are being erected annually, giving to organ builders every opportunity to make use of the most modern devices and improvements. These of course do not affect the tone and quality of the instrument, but they give to the organist facilities which make it possible for him to accomplish feats of performance and effects which were impossible upon the old instruments. Lightness of touch, quick response and rapid combinations are the means at the disposal of the modern organist and these improvements are due chiefly to the application of electricity, a principle which has taken many years for its development.

It would be interesting if the good people of the old Winchester church with its ear-drum-breaking organ could come back to us, and sit in

judgment upon one of the modern electric-action organs and see one man play upon the three or four key boards with which our great organs are equipped and operate with perfect ease the almost innumerable stops. Doubtlessly they would ascribe the wonderful feats performed by the instrument to the powers of darkness.

With the organ the piano has also progressed and from the old harpsichord and spinnet has developed the present instrument. The piano player has done a very great deal to popularize the pianoforte and in the same way it is believed that the automatic player will do a very great deal to popularize the organ. Many people who cannot play the organ will be induced to have them in their homes if they know that they can operate them at any time desired, even in the absence of a skilled performer.

Electric Players

When one listens to the Welte-Mignon Piano Player, it is difficult to believe that a skilled artist is not at the keyboard performing the music. The exact instant of striking each note and the duration during which the key is held are faithfully recorded and reproduced with absolute accuracy and a pretty close approximation to the power of the blow with which each key is struck is obtained.

The Tel-Electric Piano-Player operates essentially in the same manner as the Welte-Mignon and particularly accents the individual notes and brings out the theme. The greatest pianists of the world have not hesitated to play the original records for these instruments, nor objected to having a fac-simile of their autographs placed on every roll, so perfectly do the instruments reproduce their individual characteristics of playing.

Still another use of electricity in the production of music is exemplified in the operation of the Choralcelo. In this instrument the strings are caused to vibrate by a pulsating current, without any contact of a physical nature. The depression of the keys forms an electrical connection which energizes a series of magnets placed immediately behind the strings. The result is a pure orchestral tone. If the rate of pulsation is increased in the magnets, the strings respond both in pitch and quality.

A combination of piano and violin is found in the Paganini, an instrument which is operated by an electric motor through the agency of perforated paper music rolls. The string effects of the violin are produced by means of finely voiced organ pipes of peculiar construction.

There seems to be no limit to invention, and what still greater part electricity will play in the production of music, none can foresee. The old drums, rattles and pipes seem very childish and ridiculous to us, accustomed as we are to the great modern instruments. But it was in these ancient contrivances that our wonderful modern organs originated, and so are worthy of our respect. Furthermore, who are we that we should laugh? Is it not conceivable that musicians a few thousand years from now may with vast amusement read of the development of music during the 20th century and then, as an interesting contrast to our little efforts, press a button and delightedly listen to the music of the spheres?

Photograph by Paul Thompson

Thomas A Edison Visits the Site of New York's First Central Station at 257 Pearl Street to See the 35th Anniversary Tablet Erected in 1917. Among Those who Met the Inventor were Thomas Wooley, T C Martin, Mrs Nellie Curran, W. T. Dempsey, Richard Darlington, W H Meadowcroft, H. A. Campbell, S G Rhodes, E A Harley, Frank Gilbert, Joseph Lee, Wilson S Howell and Arthur Williams

The Electrical Show of 1919

A STUDY of the exhibits at the New York Electrical Exposition of 1919 at the Grand Central Palace, showed more than anything else the important part that electricity is playing in the management of the modern home. Electrical devices to lighten the labor incidental to household tasks formed perhaps the most important single feature of the exposition. At the same time exhibits showing industrial and commercial uses of electricity were not lacking. In addition to these, other displays portrayed some of the things that electricity did during the war—and some of the industrial applications of those war-time developments. Electric trucks and passenger cars formed another interesting feature of the exposition.

The 1919 Exposition marked the return of the New York Electrical Show after a war-time absence last year. Incidentally the show also marked the return to industrial activities of the Grand Central Palace which during the war served as a debarkation hospital. The Electrical Show was the first to occupy the big building on Lexington Avenue after the War Department turned it back to its owners.

The scope of the exhibits varied widely. The displays ranged from small cooking appliances to the huge electric trucks, from the electric dairy to the electric milk warmer for baby's

Photograph by The New York Edison Company

The First Impression. View from the Lexington Avenue Entrance

Photograph by The New York Edison Company

Delegates to the International Conference of Women Physicians Visited the Show and Found Many Things of Interest in the Electro-Therapeutic Exhibit

bottle, and from an electric fire engine to electro-therapeutics. And each exhibit had its eager and interested crowd. The attendance ranked well up with other years. The throngs poured into the building at the opening of the doors in the morning and the great aisles of the palace were crowded until closing time.

The various home appliances, particularly the smaller electrical cooking devices received a great share of attention. It is these devices which form the principal means of cooking for many families which are now living in two- or three-room apartments. Such apartments, remodelled as many of them are from larger quarters, have acquired their so called improvements at the expense of the kitchen. Indeed in some cases the kitchens consist of a single shelf in a closet to which, between meals, various table cooking devices are returned.

That the servant shortage is still a very vital problem to New York families was indicated by the numerous inquiries about electrical appliances for doing heavier work of the household. In this class the washing machine and the vacuum cleaner seemed to have first call. In fact one exhibitor reports that more than seventy machines were sold by his demonstrators while the estimate for the entire show indicates that not less than three-hundred-fifty families now possess these appliances while vacuum cleaners, had a sale of more than three hundred machines.

As one of the prominent exhibitors said, "it was a buying crowd" at the Electrical Exposition. People bought because they had reasons for buying, and it is evident that electricity is sought as one of the solutions of our many problems of the day for the reason that the demand for appliances was so heavy.

Although each manufacturer maintained his own independent exhibitions there were several places where

these appliances were exhibited in groups showing the relation of one to the other.

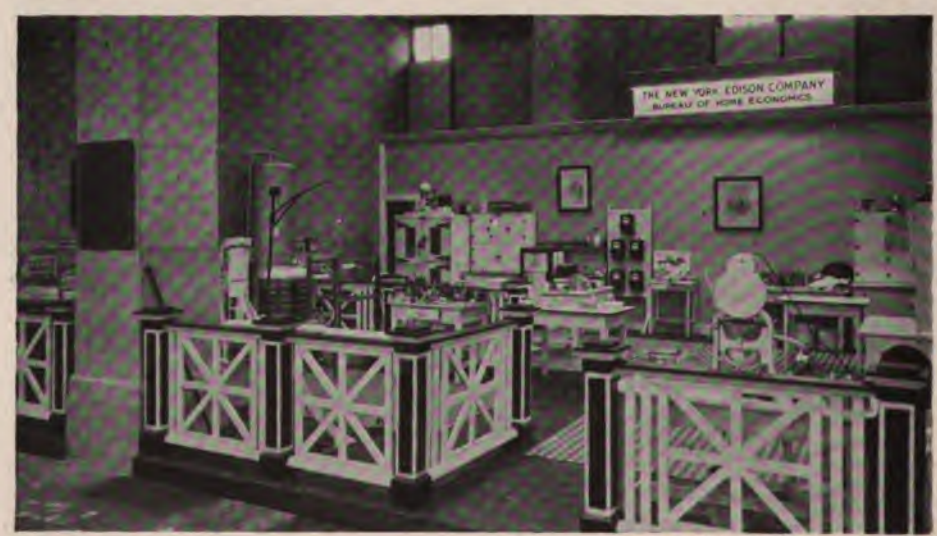
In the Push-button Apartment arranged by the Home Economics Bureau of The New York Edison Company, the Push-button Bachelor reveled in his freedom from the tie that binds. He prepared waffles with a telltale ease that boded ill for the long supposed superiority of the fairer sex. The bachelor serenely continued to mix and beat and very shortly had prepared himself a wonderful meal by the mere pressure of buttons. Indeed this Push-button Bachelor met a real test when he undertook to prepare a luncheon for six women who spent the afternoon at the exhibition. This luncheon included salad, sausage surprise, cut meat, and coffee and waffles for desert. That he accomplished his task well was indicated by six anxious inquiries for the recipes for the things he prepared.

One item of interest that was brought to the attention of New York real estate agents was the decreased value of his properties unless equipped with the proper baseboard outlets for electrical appliances. For those erecting new buildings or remodeling old types of apartments, a co-operative service has been arranged by The New York Edison Company to aid in seeing that the proper amount and right type of wiring is done to meet the modern demands for electricity.

Among those who exhibited at the 1919 Exhibition were:

The American Ironing Machine Company, The Packard Electric Company, Duparquet, Huot & Moneuse Company, Electric Meter Corporation, The Lansden Company, Sibley-Pitman Electric Corporation, Tri-City Electric Company, The National Sales Machine Company, Waite & Bartlett Manufacturing Company, The B & K Manufacturing Company.

The Dayton Pump Manufacturing Company, Federal Telegraph & Telephone Company, The Majestic Electric Device Company, Delco Elec-



Photograph by The New York Edison Company

Where the Push-button Bachelor Did His Electrical Housekeeping

Photograph by The New York Edison Company

The Push-button Apartment with Its Host of Little Electrical Servants Was a Centre of Great Interest

tric Laboratories Company, Pittsburg Electric Specialties Company, Everyday Electric Magazine, The New York Appliance Company, The DeForest Radio Telegraph & Telephone Company, A H Grebe & Company, The Alpha Electric Company, Jaburg Brothers, Fleischman Yeast Company.

Baker R & L N Y Corporation, Brokaw-Eden Company, The C C Bohn Electric Company, Commercial Electric Truck Company of America, L. M. Cockaday & Company, Consolidated Telegraph & Electrical Subway Company, Cooper-Hewitt Electrical Company, Clements Manufacturing Company, Comstock Household Service.

The Duntley Products Company, Inc, Display Stage Lighting Company, Electrical Review, Edison Electric Appliance Company, The Electric Storage Battery Company, Electrical Testing Laboratories, Electrical Record, Federal Sign System (Electric).

The Fox Electrical Corporation, Guarantee Electric Products Company, General Electric Company, Hot-Flo Faucet Corporation, The Hoover Suction Sweeper Company, Hartt & Morison, Home Devices Corporation, The Habirshaw Electric Cable Company, Inc, Wallace B. Hart, Kimball Electrical Construction Company, J Livingston & Company, The Laun-dry-ette Sales Company, Lightolier Company, Manhattan Electrical Supply Company, The H Maimin Company, Inc, Manning, Bowman & Company, Metropolitan Engineering Company, Nicholas Power Company, National Lamp Works of General Electric Company, The New Home Sewing Machine Company, New York & Queens Electric Light & Power Company, The New York Electrical School.

The New York Edison Company, Ohio Electric Company, Pease-Behning Company, Pneuvac Company, William Truswell & Sons, The Tucker

Photograph by The New York Edison Company

Decorations of Red and White with Greens on the Columns Added to the Brightness of the Show

Electrical Construction Company, The United Electric Light & Power Company, U S Cloth Cutting Machine Company, Western Electric Company, The Wireless Improvement Company, Ward Motor Vehicle Company, Yonkers Electric Light & Power Company, Yonkers Chambers of Commerce.

Allen Sales Service, Inc, American Bronze Products Company, W A Buerkle Sales Company, Brooklyn Edison Company, Inc, Contra-Pole Electric Company, Borden's Farm Products Company, Inc, Hooven Letter Service, Inc, John Jergensen, Landers, Frary & Clark, The Metropolitan Detroit Electric Auto Company, The Regina Company, The Shelton Electric Company, Walker Vehicle Company.

Viking Sign Company, Hamilton Beach Manufacturing Company, Electrical World, Branden Hedges McLain, Inc, Bennage Company, Hight & Stout, Hurley Machine Company, Illuminating Engineering Society, E B Latham & Company.

Royal Eastern Electric Supply Company, Rawson Electrical Instrument Company, W & J Sloane, E D Stodder, Strauss & Company, Inc, A Thompson, Westinghouse Electric & Manufacturing Company, Goodwill Electric Company, Geyser Electric Company, Gage Publishing Company, Fitzgerald Manufacturing Company and the Eureka Vacuum Cleaning Company.

"Mistress Mary, quite contrary,
How does your kitchen go?"
"'Lectric roaster, 'lectric toaster,
Push buttons all in a row!"

Constance Hoar

The Electrical Loaf

A LARGE, clean, airy room—everything painted and enameled white—the appetizing odor of freshly baked bread—lots of bright sunlight streaming through great highly polished windows. Two or three large machines standing on the white tiled floor. Along one wall rows of white lockers, and then, most important of all—great movable racks full of loaves of bread, golden brown and giving forth an odor of such richness as to make one's mouth water. Such is the setting for "The Electrical Loaf" as exemplified in the chain of Federal bake shops now being operated in this city.

"We do everything by electricity," explains the manager. "Even our signs are electrical. The dough is kneaded and baked electrically and the entire process is carried out to completion right here in the store." Here at the very start is something interesting! You instinctively recall the many times you have passed other bakeries and caught fleeting glimpses down dark cellar stairs of men kneading great masses of dough with their bare hands. To many, the behind-the-scenes of a retail bakeshop remained a matter of conjecture until the new type store used its ovens as part of the plan to attract trade.

The bread is compounded and put into the mixer, electrical of course, capable of holding enough to make two-hundred loaves. In this machine the dough is kneaded and mixed until

Photograph by The New York Edison Company

One of the Federal Stores, 400 of Which are in Service Throughout the Country

it is in exactly the right condition to be turned out into covered troughs and allowed to stand.

From the dough troughs the mixture is packed into regular baking pans, clamped together, five in a group to make them easier to handle, and slid into the dough closets, to rise. "We know just how long to leave it to have it reach a uniform height before we put it in the oven." In forty minutes the bread is baked and placed on the racks for sale.

After inspecting such a store as has just been described the question naturally arises—Is bread made in this manner any better than that made in the old fashioned way? With but a little thought it will be readily seen that the answer must be—yes. In the first place the dough is thoroughly mixed, not by any human agency, which soon tires and grows careless, but by machinery which will keep working for as long a time as may be desired. Secondly, in the oven the dough receives uniform heat. Guess work and chance, two elements which enter so materially into the old methods of baking, are not factors in the modern electrical bakery. Every loaf is of uniform size, taste and color. And then most important of all, absolute cleanliness prevails throughout the entire process.

Engine No. 6 P F D

The motor fire engine, exhibited at the Electrical Exposition last month, attracted considerable attention, not alone because of interest in the vehicle itself but because it made a 103 mile trip through rain, under its own power to reach New York.

Fresh from the paint shop and

Photograph by The New York Edison Company

Removing Bread From the Ovens

without a trial, the truck left Philadelphia in a downpour of rain. The driver encountered the most blinding kind of weather with the wind veering in fitfull gusts making it almost impossible to see the slippery road ahead.

To spite these conditions the machine made this run of 103 miles in less than eight hours actual running time. Two short battery boosts were given, one at Trenton, the other at New Brunswick.

The apparatus which is now in service in Paterson, N J, is a combination chemical engine and hose cart carrying also a high pressure turret, a small search light and a number of ladders. It was remodeled from a horse-drawn truck by the Commercial Truck Company of America in Philadelphia. The drive is on four wheels, each wheel having a powerful electric motor, giving a speed of thirty miles per hour in emergency. It is equipped with a double set of brakes, the hand

brakes locking on the front wheels, the foot brakes on the rear wheels. Current is supplied from an 84-cell Exide battery.

Three years ago the Paterson Fire Department organized an open competition for fire apparatus, with a very substantial order for machines as the prize. The electric proved its superiority in speed, hill climbing, quickness in getting under way and general dependability. Accordingly thirteen electric trucks were ordered, and after two years trial the electrification of the entire department was decided upon. Engine No 6, is part of the second order.

One of the particularly valuable features of the electric fire truck is its ability to get away quickly in cold weather. The coming of winter requires no special heating devices to keep the motors in readiness for instant use. In the coldest weather the application of the current sets the wheels into instant motion and the machine is under way almost as the driver takes his seat. It is very often these first few minutes that mean the difference between a small fire and a conflagration.

The electric truck has proven itself highly efficient in every city where it has been put in use. Philadelphia has twelve and is planning for more. Camden, N J is entirely equipped with electric trucks, having a fleet of fourteen. Springfield, Mass has been using electrics since 1911, and a steamer has been in service in New York since 1912.

Photograph by The New York Edison Company

Engine No. 6 Combines a Hose Cart, Ladder Truck, Search-light Wagon, and Chemical Engine

Changing the Sky Line

IT IS hardly to be supposed that the law makers who passed the New York City Zone Law in 1916 realized that in so doing they were materially assisting in making New York's already beautiful sky line still more beautiful. By the Zone Law buildings in certain specified districts throughout the city are limited to heights conditioned by the width of the street. For example if the street in a certain district is thirty-five feet wide the buildings may be restricted to two times or perhaps three times this width. Then the law says, "but—" and this is where we start to build a new sky line for New York.

The neighborhood of Forty-second Street is known as a "two time district"—In other words the buildings may be built no higher than twice the width of the street, "but for each one foot that the building or a portion of it sets back from the street line, four feet shall be added to the height limit of such building or such portion thereof." This means that henceforth the main part of all buildings in this district may be no higher than twice the width of the street, but that if more floor space is desired it may be obtained by pyramiding the building at the rate of four feet to every one foot set back from the street line. It is obvious then this law being effective in many parts of the city that in time New York's sky line will no longer silhouette great cubical buildings, their many various sized roofs made hideous with ventilators, tanks and chimneys of every shape, but rather will present numbers of great monumental buildings all of the same general form.

The first building heralding the dawn of this great improvement in what might be called the mid-city district is the twenty-story National Association Building at 21-31 West 43rd Street. Up to the time of the passage of the Zone Law, corner lots were always considered most desirable for building purposes on account of their better lighting and ventilating facilities. But now a position in the middle of a block, which is practically the situation of the National Association Building, is almost as desirable since the lower floors receive as much light and air as the upper floors.

National Association Building

The National Association Building which is erected on the site of the old Racquet and Tennis Club, was designed by the firm of Starrett and Van Vleck. The contractor is the Fred T Ley Company who sub-let the steel construction work to the Hay Foundry and Iron Works—builders also of the World's Tower Building on Fortieth Street. On the 43rd Street side of the building the first "set-back" occurs just above the twelfth floor, and the next one at the seventeenth floor. This gives the effect of three buildings set one on the other. The first, twelve stories high; the second five, and on top, one of three stories. The work was started during the last part of August and the completed skeleton now stands towering above the surrounding buildings.

Starrett and Van Vleck, Architects *Photograph by The New York Edison Company*

The National Association Building on West 43rd Street, is one of New York's first "Set-back" Sky scrapers

Long experience had taught the contracting engineers of this building the advantages of electricity for construction work and contracts were signed with The New York Edison Company for 205 horsepower to operate three derricks and the air compressors and hoists. The old traffic blocking steam engine of a few years ago with its coal pile, noise, and dirt, not to mention the clouds of black smoke it used to belch into windows of neighboring houses, was a minus quantity during the work.

Primarily, as the name implies, the building is to be used to house the headquarters of various commercial and industrial associations and provide suitable offices for their use. It is remarkable that in this, the greatest city of a nation acknowledged to be the world's leader in modern industry, there should not have been a building dedicated to this purpose before now. The building is not restricted to this purpose, and many of the rooms are to be rented as regular business offices. The arcade which will run through from 43rd to 44th Street will be occupied by small stores.

It is expected that the offices will be ready for occupancy by February or perhaps even earlier. The electricity for lighting the three thousand lamps with which the building will be equipped will be supplied by The New York Edison Company. Three hundred and sixty horse-power has also been contracted for, which will be used to operate the numerous elevators and the house pumps. A complete electric vacuum cleaning system is to be installed with numerous outlets on every floor.

Kate's Successor

"All right, Bill, let her go!"

"Gid'ap, Kate, go on!"

Kate, lost in dreams dear to old horses, dreams of open meadows and long lush grass, at the sound of the voice slowly leans forward, walks about fifteen steps and then stops. Four sacks of flour have been raised to the second floor. Kate's head droops. It's dull business, this hoisting of grain and twenty years is a long, long time to work on the same job. Oh, for those wonderful meadows!

"Back, Kate, back up!" Automatically the old horse backs. The rope is made fast to another load and then again for what surely must be the millionth time it's "Gid'ap, Kate, go on!"

But now the warehouse of Silas Driggs has been modernized. No longer are the sacks of grain hoisted to the sound of tired hoofs and the tune of "Gid'ap, Kate, go on!" Electricity now does the work of the old horse and much more efficiently of course. The sing-song voice of the driver and the clacking of hoofs have stopped and now the only tune is the hum of a motor, started by the simple throwing of a switch. It goes without saying that much money is saved by employing this new method. In the old days there were Kate's shoes to be considered and her food and lodging. And although Kate was a faithful worker there were certain fixed limits to her capacity, a limitation which is happily overcome by the speedy electric motor.

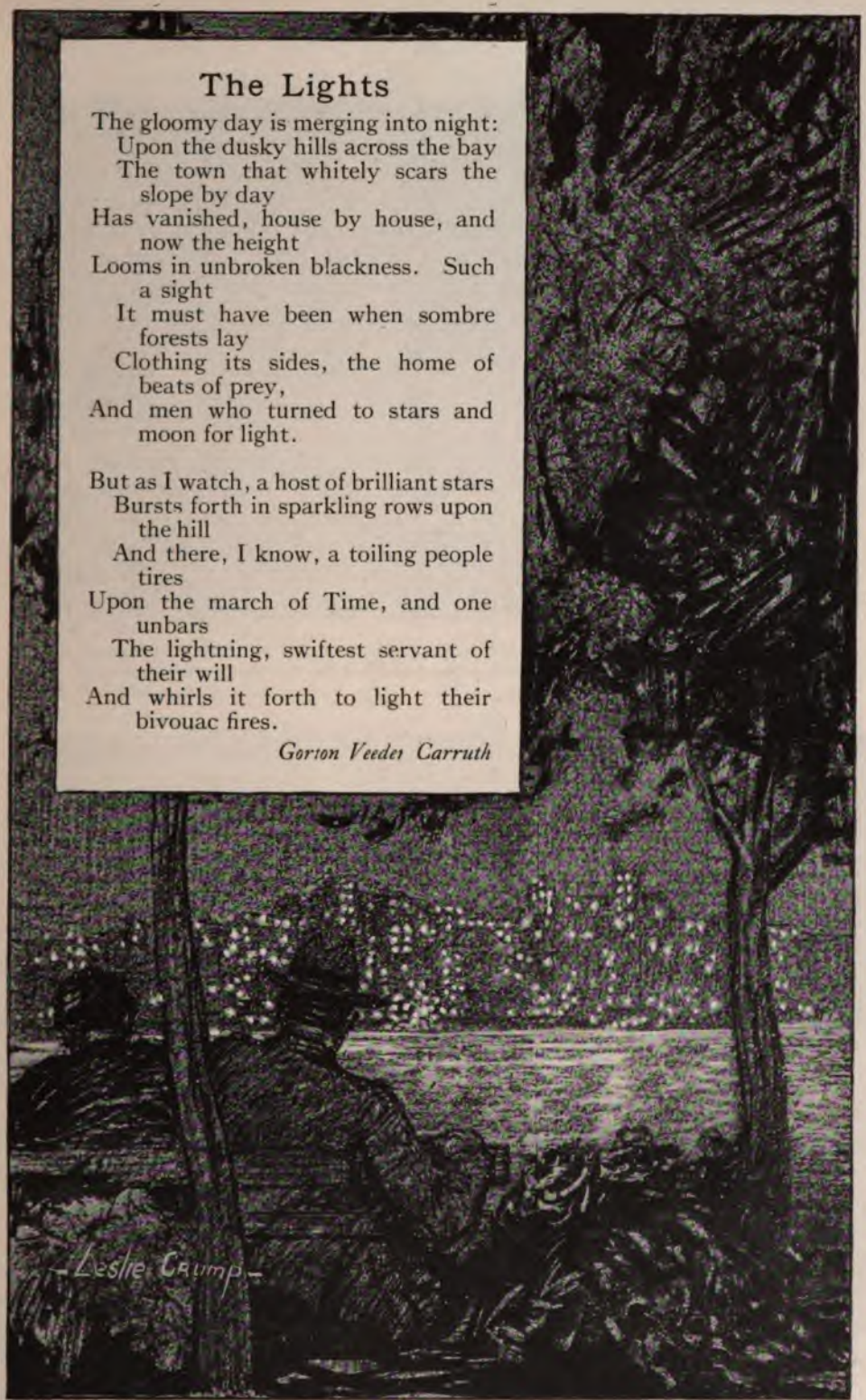
As for Kate, let us hope that her dreams of twenty years have come true and that she now lives in peaceful solitude in meadows of fresh green grass.

The Lights

The gloomy day is merging into night:
  Upon the dusky hills across the bay
  The town that whitely scars the slope by day
Has vanished, house by house, and now the height
Looms in unbroken blackness. Such a sight
  It must have been when sombre forests lay
  Clothing its sides, the home of beats of prey,
And men who turned to stars and moon for light.

But as I watch, a host of brilliant stars
  Bursts forth in sparkling rows upon the hill
  And there, I know, a toiling people tires
Upon the march of Time, and one unbars
  The lightning, swiftest servant of their will
And whirls it forth to light their bivouac fires.

Gorton Veeder Carruth



Decoration by Leslie Crump

Photograph by the New York Edison Company

A "Live Wire" Shop is That of Kellogg and Bertine, Located on the Corner of 59th Street and Madison Avenue, Which Features Particularly, Household Appliances and the New Mazda C-4 Lamps

Photograph by The New York Edison Company

Time Waits for no Man. But Man can Save Time and Labor too by Installing in his Laundry just such Equipment as Wallace B. Hart has on Exhibition in his Sales-rooms at 46 East 41st Street

Manufacturers and Agents (Continued from Page 132)

Motors

Inspection—Maintenance—Repairs (Cont'd)

Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—48 East 8th St
Cutter F B Co—50 Church St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Florandin & Co Chas H—110 West 40th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St

Signs Electric

Bofinger Bros—146 East 42dSt
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L (Flexlume Sign Co)—560 Seventh Ave
Universal Elec Stage Lighting Co (Kliegl Bros)—240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 ChurchSt
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1123 Broadway

Specialties

Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers)—1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes)—114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Household Service—21 E 40th St
Duntley Products Sales Co—295 Fifth Ave
Duparquet, Huot & Moneuse—108-114 W 22nd St

Manufacturers and Agents (Concluded)

Vacuum Cleaners (Concluded)

Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St.
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers) —11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—42 East 23rd St.
Lightolier Co—569 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co (Geyser) —35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)—119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Nugent Electrical Supply Co—7 W 29th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 196—M Zuckman
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 92—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1170—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 8th St 48—American Pressing Iron Co
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker National Fire Prevention Engineering Company
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co

Manufacturers and Agents (Concluded)

Vacuum Cleaners (Concluded)

Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St.
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers) —11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—42 East 23rd St.
Lightolier Co—569 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co (Geyser) —35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)— 119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Nugent Electrical Supply Co—7 W 29th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 196—M Zuckman
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 92—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1170—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 8th St 48—American Pressing Iron Co
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker National Fire Prevention Engineering Company
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co

Wiring and Installation Contractors (Concluded)

Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Madison Ave 407—Manhattan Elec Cont Co
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 731—Metropolitan Electric Co
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 81st St 229—Edward Zenker
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
Park Ave 1630—Wimpie Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 152nd St—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 11½— S W Mills
East Fordham Road 273—Endi
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barclay St 109—Spilger Electric Co
Barrow St 25—Jos Torre
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beaver St 45—Welborne & Co
Beekman St 96—Naumer Electric Co
Bleecker St 13—Schwartz & Blumengarten
Bleecker St 122—A Epstein
Broad St 68—Broad Equip Co of N Y
Broad St 122—Stewart-Dickson & Co Inc
Broadway 1—William Vautin
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Electric Co
Broadway 302—Harry Weinstock
Broadway 320—Standard Electricians & Mill Wrights
Broadway 335—Monowatt Elec Import Co
Broadway 371—Rabinowitz & Kluger
Broadway 383—A Edelman
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 435—Radiant Electric Lmp Co
Broadway 489—Sunlight Electric Co
Broadway 525—Edison Fixture Co
Broadway 569—Lightolier Co
Broadway 652—New Era Appliance Corp
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 243—Van Ben Thuysen Robt Co Inc
Canal St 261—Stransky Mfg Co
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 392—Welsbach Gas Lamp Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 196—Max Zuckman
Centre St 231—Worth Electric Co
Chambers St 101—Broadway Hardware Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Chatham Square 2—Louis Abrahams
Church St 30—Wm Braun
Church St 30—H P Copeland
Church St 30—P A McGuire
Church St 50—F W Collins
Church St 50—Standard Drug Co
Church & Vesey Sts—Metropolitan Hardware Co
Cleveland Pl 25—Globe Electric Co
Cooper Square 10—Philip Addison
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin
Cortlandt St 39—W S Broadhurst
Cortlandt St 42—Terminal Cycle & Sporting Goods Company
Cortlandt St 70—Cortlandt Bicycle & Electrical Supply
Cortlandt St 70—W R Pabst
Cortlandt St 84—Bleyle Electric Co
Dey St 48—John J Leahy
Dey St 62—A E Gelling
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 52—Flitner Atwood Co
Front St 62—William E Williams
Front St 124—Charles Davidson
Front St 162—W S Pendleton Jr & Co
Front St 194—E George & Co
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—H D Perlman
Fulton St 110—Marlen Hdwe Co
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Fulton St 248—Williams & Wells Co
Gold St 13—Anderson & McKenzie
Gold St 46—Van Axen Elec Co
Grand St 162—Adam Kalb
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 211—Interborough Lighting FixtureCo
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 185—Weyant Electrical Supply Co
Greenwich St 255—G M Ross
Greenwich St 293—King Electric Const Co
Greenwich St 460—A F Beckman & Co
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 84—Alfred Whiteley Inc
John St 99—T Frederick Jackson Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 95—John W Hooley
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Chas W Osburg Co
Liberty St 120—Fred C Wagenbach Co
Liberty St 123—Smith-Meeker Eng Co
Liberty St 126—Thomas & Johnson
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 91—Weber & Jones
Mott St 44—Quong King Long Co
Murray St 23—Stanley & Patterson
Murray St 37—Fensterer & Ruhe
Murray St 43—Conlan Electric Co

Authorized Mazda Lamp Agents (Continued)

Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 140—Reid-Yeomans & Cubit Inc
Nassau St 145—N Y Supply & Inspection Co
Nassau St 154—Minato Honga Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 15—United Adjustment Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 35—Henry A Kissel & Co
Pearl St 39—Commercial Construction Co
Pearl St 116—Kelting Electric Co
Pearl St 550—E B Latham & Co
Prince St 44—Louis Iorio
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 81—H & F Metzinger
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
State St 5—C K Webster
Sullivan St 29—Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Varick St 203—Riccio Electric Lamp Co
Vesey St 59—L Gabler & Sons
Vestry St 35—Northwestern Electric Equip Co
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 97—Wm E Glaeser
Warren & Church Sts—Perlman Auto & Cycle Supply Co
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
West Broadway 176—O M Matzen
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 491—Acme Machine & Motor Co
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West Houston St 20—Stein Manufacturing Co
West St 90—Peters & Peters Inc
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
White St 39—Wm Rouguett
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
Wooster St 33—Paul Silverstone

East Side District

Avenue D 2—The New Interboro Electric Co
Avenue D 53—Barnett Rosenberg
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 147—N Hirschfeld
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 283—Dulberger Sup Co
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 327—N Y Gas Light Co
Delancey St 25—Wm H Blank
Delancey St 84—Frank Silverman
Delancey St 188—Louis Boritz
Division St 87—Soffen Brothers
Division St 133—Lincoln Cont Co
East Broadway 88—Minkowitz & Cohen
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 93—I Berkowitz
East Houston St 170—D Stein
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 69—Eastern Electric Works
East 4th St 75—Charles Lipschultz
Essex St 62—Public Elec Supply House
Essex St 172—W Katz
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 142—J Zucker
Forsyth St 182—Ben Goldberg
Ludlow St 69—Chas I Silberman
Ludlow St 144—Louis Yuster
Monroe St 11—Anglo Amer Elec Co
New Chambers St 4—Louis Purcaro
New Chambers St 22—Clover Electric Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pell St 31—Tia Lung Co
Pike St 12-14—M Grundfast & Bros
Pike St 30—Freeman Bros
Rivington St 265—M Franzblau
Second Ave 73—J Brown

Irving Place District

Bible House 75—N H Bressel
Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1133—Electrical Consumers Adjustment Corporation
Broadway 1155—Empire Electric Co
Broadway 1161—Antler Elec Co
Broadway 1170—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 10th St 30—Spero & Cohen

Authorized Mazda Lamp Agents (Continued)

Third Ave 918—Sidney Frey
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 29th St 162—Jaffer Electric Co
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 128—Joseph Gershon
West 30th St 151—Alpha Electric Co Inc
West 31st St 14—Charles Campbell
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Company
West 31st St 28—West Side Electric & Tinsmithing Co
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 31st St 153—Kresel & Crasno
West 32nd St 130—W F Irish Co
West 33rd St 221—E J Elec Installation Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 36th St 126—Metropolitan Elec Sup Co
West 37st St 55—Eagle Electric Co
West 37th St 58—Roeser Studios Inc
Wes 37th St 335—Gordon & Koppelson
West 40th St 64—J Bank
West 40th St 105—Publicity Clock Co
West 40th St 143—Smith Elec Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 232—Paramount Elec Const Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St & Broadway—Times Building—N Y Appliance Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 47th St 310—H J McKinnon
West 48th St 244—M Schweiger & Co Inc
West 48th St 415—Fisch Elec Sign Co
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52d St 136—Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 149—L Segalbaum
East 81st St 444—B Lovinger
East 84th St 158—Gabriel Erdos
East 86th St 341—L S Metzger
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1576—Joseph Corak
First Ave 1685—McCord O, Scherer & Co
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Co
Park Ave 588—T J McGunnigle
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1838—P Stein
Second Ave 2033—Rosenthal & Rosen
St Nicholas Ave 16-17—Henry M Green
Third Ave 1011—J M Kohlmeir
Third Ave 1055—F Gretzer's Sons
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Jas Gear

Authorized Mazda Lamp Agents (Continued)

Forty-second Street District

Broadway 1358—Siems & Co
Broadway 1368—Arrow Elec Cont Co
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1409—A & A Electric Co
Broadway 1416—H R Lockwood Co
Broadway 1416—Elec Service Eng Co
Broadway 1476 Suite 1013—American Electric Construction Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
Broadway 1743—Times Square Auto Sup Co
East 29th St 34—Albin Gustafson Co
East 29th St 41—S H Kline
East 30th St 2—Simpson Electric Co
East 30th St 8—Electric Magnet Co
East 32nd St 19—R E Leve
East 34th St 144—S W Elec Co
East 38th St 151—Sussman & Sussman
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 41st St 104—J Livingston & Co
East 42nd St 18—Herbert & Huesgen Co
East 42nd St 146—Bofinger Bros
East 42nd St 236—H F Electric Co
East 42nd St 239—Hudson Elec Eng Co
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 3—Walsh Elec Sup. Co.
East 47th St 17—Black & Boyd Mfg Co
East 48th St 201—Tiedelmann & Bohrer
East 52nd St 19—White Allom & Co
East 57th 206—Paul F Weinbeer
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
East 59th St 241—S A Ecker
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 882—W E Nichols Corp
Eighth Ave 903—Chas Weinz
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 347—B & B Sign Co
Fifth Ave 417—Underwood & Underwood Inc
Fifth Ave 503—A W Haire
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
First Ave 867—Al Beuler
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Building—Concourse Electric Shop
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave 331—Herz Pharmacy Co
Lexington Ave 589—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Lexington Ave 769—Colonial Gvt & Elec Con t Co
Madison Ave 361—Tiffany Studios
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 619—Frankle Alffias
Madison Ave 631—Kellog & Bertine
Ninth Ave 604—Geo Unsold
Ninth Ave 630—Nathan Marks
Ninth Ave 767—Isidor Brand
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Seventh Ave 358—Bazaar Franko American
Seventh Ave 468—Bank Elec Co
Seventh Ave 515—Van Beuren & N Y Bill Posting Company
Seventh Ave 560—L L Strauss
Seventh Ave 729—Howell's Cine Equipment Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 636—Fred B Zender
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 947—John W Flint
Sixth Ave 1093—Mt Morris Auto Sup Sta
Tenth Ave 486—Geo E Valley & Bro
Tenth Ave 672—J G Gloecker
Tenth Ave 755—H F Lutters
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 631—Chelsea Electric Co
Third Ave 647—Julius Gabler
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co

Authorized Mazda Lamp Agents (Continued)

Third Ave 918—Sidney Frey
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 29th St 162—Jaffer Electric Co
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 128—Joseph Gershon
West 30th St 151—Alpha Electric Co Inc
West 31st St 14—Charles Campbell
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Company
West 31st St 28—West Side Electric & Tinsmithing Co
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 31st St 153—Kresel & Crasno
West 32nd St 130—W F Irish Co
West 33rd St 221—E J Elec Installation Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 36th St 126—Metropolitan Elec Sup Co
West 37st St 55—Eagle Electric Co
West 37th St 58—Roeser Studios Inc
Wes 37th St 335—Gordon & Koppelson
West 40th St 64—J Bank
West 40th St 105—Publicity Clock Co
West 40th St 143—Smith Elec Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 232—Paramount Elec Const Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St & Broadway—Times Building—N Y Appliance Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 47th St 310—H J McKinnon
West 48th St 244—M Schweiger & Co Inc
West 48th St 415—Fisch Elec Sign Co
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52d St 136—Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 149—L Segalbaum
East 81st St 444—B Lovinger
East 84th St 158—Gabriel Erdos
East 86th St 341—L S Metzger
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1576—Joseph Corak
First Ave 1685—McCord O, Scherer & Co
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Co
Park Ave 588—T J McGunnigle
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1838—P Stein
Second Ave 2033—Rosenthal & Rosen
St Nicholas Ave 16-17—Henry M Green
Third Ave 1011—J M Kohlmeir
Third Ave 1055—F Gretzer's Sons
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Jas Gear

Authorized Mazda Lamp Agents (Continued)

Third Ave 1286—F & B Electrical Co
Third Ave 1298—J Rappaport
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1460—Circle Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1501—M Eberhart & Son Co
Third Ave 1545—N W Altman Co.
Third Ave 1636—Benjamin Phillips
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 97—Max Weiss
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 326—I H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—B Murphy
Amsterdam Ave 941—Julius C Belmonte
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Marcus & Klein
Amsterdam Ave 989—Marcus & Klein
Amsterdam Ave 1084—Samuel Garnter
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1641—Gold Rose Hardware Co
Amsterdam Ave 1814—Louis Flato
Amsterdam Ave 2232—Samuel Greenberg
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1834—Trop Specialties Co
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1987—King Tire Co
Broadway 2035—S A Friedman
Broadway 2104—Modern Ltg Co
Broadway 2142—C B Montagriff
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2299—M J Kane Inc
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 112th St—Park & Tilford
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3181—Dorb Drug Co
Broadway 3878—H A Kammerer
Broadway 3906—A Lewis Inc
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 26—Magneto Elec Generator Co
Columbus Ave 144—E May Inc
Columbus Ave 171—N Vincenzi
Columbus Ave 189—Budnick Bros
Columbus Ave 196—Columbus Elec Co
Columbus Ave and 72d St—Park & Tilford
Columbus Ave 220—T F Carr
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—Alexander C Paterson & Son
Columbus Ave 592—R C Spencer
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Sup Store
East 112th St 173—Behl Electric Co
East 113th St 21—Modern Elec Cont Co
East 115th St 58—M S Rosenfeld Bros
East 116th St 204—Empire Gas & Elec Fix Co
East 125th St 17-19—F J Rush
East 125th St 48—Irving Bropp
Eighth Ave 2073—Phil Epstein
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2371—West End Bee Hive
Eighth Ave 2441—A E Jackson
Fifth Ave 1410—S J Eisner
Hancock Place 3—National Combination Gas & Electrical Fixture Company
Lenox Ave 22—Morris Perla
Lenox Ave 151—Louis Saphier
Lenox Ave and 126th St—Park & Tilford
Lenox Ave 346—Herman Young
Lenox Ave 394—S. Lichtenstein
Lenox Ave 403—Lenox Elec Co

Authorized Mazda Lamp Agents (Continued)

Lenox Ave 468—Frank & Meyers
Lexington Ave 1855—Shane Electric Co
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1889—Gristede Bros Inc
Second Ave 2236—A Freeman
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 1422—Manhattan Lamp Service Co
St Nicholas Ave 1368—Le Mar Supply Co
Third Ave 2098—Iron Spec Co
Third Ave 2352—Chas Mann & Co
West End Ave 165—F W Astarita
West 61st St 16—Asch & Co Inc
West 66th St 161—Leo Strus
West 72nd St 172—John B Campbell
West 72nd St 176—Kaufman & Burkert
West 82nd St 221—Gertler Elec Co
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 118th St 430—Morningside Elec Supply Co
West 125th St 125—I Davega, Jr
West 125th St 125—L Davega Inc
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—E A Briggs
West 125th St 215—M J Heller Elec Co
West 126th St 301—C O Alberga & Co
West 127th St 602—James Cunneen
West 135th St 107—C M Moten

Bronx (Melrose District)

Bergen Ave 498—S Spiero
Boston Road 1304—Mayo Lighting Fixture Co
Brook Ave 172—S Dworkin
Brook Ave 520—M Goldman
Burnside Ave 4—F B Electric Co
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 152d St 726—Joseph B Josephson
East 152nd St 739—Gustav Abramowitz
East 152nd St 835—J Lowe
East 155th St 392—Joseph Mancusi
East 160th St 770—Jacob Garten
East 161st St 615—J F Smith
East 163rd St 736—Sales Electric Co Inc
East 163rd St 965—Isidor Schohan
East 163rd St 1029—Globe Elec Lamp Co
East 167th St 460—M Scharzler
East 169th St 535—B Weiss Electric Co
East 169th St 557—Bethlehem Hardware Co
East 169th St 638—Max Berminer
East 177th St 1753—C H Wallace
Forest Ave 947—Ed Gorodess
Freeman St 879—L Drescher
Hunts Point Ave 895—Max Maged
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 950—Louis Gladstein
Longwood Ave 972—Adolph Greenblat
Melrose Ave 558—Hub Elec Supply Co
Melrose Ave 776—Ed O Steinoch
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mahler Electric Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1074—Rapid Elec Cont Co
So Boulevard 1308—Louis I Waldman
So Boulevard 1319—Jacob Katz
So Boulevard 1327—A Dressner
St Ann's Ave 342—S Wishnevsky
Stebbins Ave 1142—Walshin Bros
Teller Ave 899—George Venney
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2718—A L Biltchick
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Gurland
Third Ave 3151—We Lektrify U Corp
Third Ave 3277—W D Saunders
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3808—Adolph Siegel
Union Ave 673—R J Atherly
Union Ave 767—Henry Cohen
Washington Ave 937-1037—M Regelson
Washington Ave 1226—Leopold Altman
Washington Ave 1631—Yorkville Elec Fix Co
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Electric Cont Co
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias
Willis Ave 478—M P Weintraub

Bronx (Tremont District)

Boston Road 1360—Joseph Leckart
Boston Road 2017—H Von Hadeln
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co

Authorized Mazda Lamp Agents (Concluded)

East Fordham Road 338—H & M Bloom
East Fordham Road 374—Louis Grossman
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 447—Shipman Stationary Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 755—Becker Bros
Tremont Ave 855—Boris J Medove
East 180th St 350—Philip Klein
East 180th St 489—Excelsior Lighting Equip Co
East 180th St 554—A Feig
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2376—W W Electrical Co
Jerome Ave 2423—J Wollak
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
Park Ave 4206—Hugh J Casey
So Boulevard 1881—Louis Flatau
Third Ave 3710—Adolf Birnbaum
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4239—Northern Gas & Elec Fix Co
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2601—Eli Ancowitz
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 231st St 165—Louis Grossman

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway District—424 Broadway
East Side District—124 Essex St
Irving Place District—10 Irving Place
Forty-second Street District—124 West 42d St
Eighty-sixth Street District—151 East 86th St
One Hundred and Twenty-fifth Street District—15 East 125th St
Bronx (Melrose District)—362 East 149th St
Bronx (Tremont District)—Tremont and Monterey Aves

At Columbus Avenue and 87th Street, Charles Brunner "Carries On" with an Interesting Assortment of Electrical Supplies.

The EDISON Monthly

and Electrical Directory

Vol 12
Jan - Dec
1920

JANUARY 1920

THE NEW YORK EDISON COMPANY
Irving Place & 15th Street, N.Y.

The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

C—Commercial I—Industrial P—Passenger

Anderson Electric Car Co of N Y (Detroit Electric)—Central Park West at 62d St (C & P)
Atlantic Elec Vehicle Company—30 Church St Suite 422 (C)
Automatic Transportation Co—258 B'way (I)
Baker R & L New York Corporation The—Central Park West at 62d St (P)
Buda Co of Chicago—30 Church St (I)
Comm'l Truck Co of America—405 Lexington Ave (C)
Couple Gear Co—(Clarence L Smith Co Agents) —544 W 30th St (C)
Cowan Truck Co—51 East 42d Street (I)
Electro Coach Corp—50 Church St (Busses)
Elwell-Parker Electric Co (Lucian C & G W Brown Agts)—50 Church St (I)
General Vehicle (Walker Vehicle Co.) — Grand Central Terminal Room 3709 (C)
Healey & Co—1662 Broadway (P)
Hoagland-Thayer Inc—300 Washington Street Newark N J (I)
Hunt Co C W Inc—501 Fifth Ave (I)
Koppel Industrial Car & Equipment Co—30 Church St (I)
Lakewood Engineering Co—111 Broadway (I)
Lansden Co Inc The—50 Church St (C)
Lansing Co—492 Broome St (I)
Mercury Mfg Co—(Truck & Tractor Co Agents) 25 Church St
Milburn Light Electric Co H J McLeer, Factory Representative—725 Ocean Parkway B'klyn
Northwestern Mfg Co—6 Church St
Walker Vehicle Co—Grand Central Terminal Room 3709 (C) (General Vehicle)
Ward Motor Vehicle Co—5736 Grand Central Terminal Bldg also Mt Vernon N Y (C)

Charging Apparatus

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Milburn Wagon Works, Auto Div (P) Toledo, Ohio
Northwestern Electric Co The—1457 B'way
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Charging Apparatus for Ignition, Starting and Lighting Batteries

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St,
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Lincoln Electric Co—149 Broadway
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Electric Co—110 West 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Electric & Manufacturing Co—165 Broadway
Witherbee Storage Battery Co.—643-9 West 43rd St.

Electric Garages

Acker Merrall & Condit Co—536 W 46th St (C)
Edison Storage Battery Co—247 W 35th St (C)
Exide Battery Depots Inc
East Side Garage—141 E 25th St (C)
North Side Garage—West End Ave & 64th St (C)
West Side Garage—527 W 23d St (C)
International Motor Co—252 W 64 St (C)
Electric Garage The—Central Park West & 62d St (P)
474 West 130th Street Garage Inc The—474 W 130th St (C)
Willett's Garage—15 E 58th St (P)
Wright's Garage Inc—18 Audubon Place (P)

Manufacturers and Agents (Continued)

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St

Buffers—Polishers

Barker John H—95 Liberty St
Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway
Western Electric Co—151 Fifth Ave and 105 W 40th St

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electric Corporation (Rapid Dish Washer)—119 W 42d St
Livingston, J & Co—104 E 41st St
Phillipson Emil—110 W 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf)—303-305 Fifth Avenue
Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Morison Electric Supply Co—15 E 40th St
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
Elevator Supplies Co Inc—1515 Willow Ave Hoboken N J
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)

Manufacturers and Agents (Continued)

Elevators—Dumbwaiters (Concluded)

Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Company—151 Fifth Ave & 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bohn C C Electric Co—820 Sixth Ave
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Cincinnati Specialty Mfg Co—39-41 Cortlandt St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Frost Samuel—41-43 W 14th St
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morison Electric Supply Co—15 E 40th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Penn A C—Singer Building
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Roeser Studios Inc—58 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way
Western Electric Co—151 Fifth Ave and 105 W 40th St

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St

Manufacturers and Agents (Continued)

Globes—Reflectors (Concluded)

Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY
Western Electric Co—151 Fifth Ave and 105 W 40th St

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Dover Mfg Co—30 Church St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark Messrs—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom, Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Livingston J & Co—104 E 41st St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Grand Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
C & C Electric & Mfg Co—110 W 40th St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
Livingston J & Co—104 E 41st St
Mechanical Appliance Co (Watson)—39 Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Motors Co—149 Broadway
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wald Electric Motor Co—40 W 4th St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Bohn C C Electric Co—820 Sixth Ave
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const & Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6 E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave

Lists Continued on Page 21

January 1920

Trinity Church about 1775

VOLUME 12

CONTENTS

NUMBER 1

The Edison Directory

	Page
Department Stores	1
Manufacturers and Agents	1-2-3-4, 21-22
Wiring and Installation Contractors	23-24
Authorized Mazda Lamp Agents	25-32
Material-Handling Machinery	32
Edison District Offices with map	Inside Back Cover

The Edison Monthly

	Page
Editorial	6
Cunard Currents	7
Nature's Paradox	10
Co-operation Cuts Costs	12
Care of Me	14
Battery Park	16
Fairyland (verse)	19

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Lewis B Gawtry, Secretary
Frederick Smith, Treasurer

So satisfactory has been the performance of a fleet of electric trucks in the service of the Drayage Corporation during the past year, that additional trucks of the same type are now being built to take care of the increased business of this company.

The Drayage Corporation, as related elsewhere in this issue, is a co-operative organization which handles the trucking of the different wholesale houses in New York which deal in book and magazine papers. Its organization a year or so ago was the direct result of the difficulty which these concerns encountered as they attempted to handle their trucking on the basis of each for himself. Various difficulties hindered these individual undertakings among them the steadily mounting cost and the delays incidental to hauling heavy loads with horses.

It was to offset these difficulties that the paper dealers decided to pool their interests. The Drayage Corporation is the result. While the co-operative delivery idea is by no means new, the scheme as worked out by the paper dealers is perhaps the most representative of the real spirit of co-operation of any in New York. And while it is gratifying to find this example of the advantage of united over individual effort, it is also gratifying to those of the electrical industry to find that one of the important mediums in bringing about this success is the electrically operated truck.

A survey of lighting conditions in industrial plants, recently completed by the General Electric Company, has brought to light some very interesting facts regarding the country's methods of manufacture and the conditions under which the work is carried on. It is reported that while some factories do as little as five per cent of their work under artificial light, there are a few which do as much as ninety per cent. The estimate further shows that from twenty-five to thirty-five per cent of all the work turned out in these factories is produced under artificial light.

In ten per cent of the factories, the lighting was found to be excellent, thirty-two per cent were rated as good, while less than thirty per cent could be rated as high as fair. On the other hand about thirty-five per cent of the plant managements are entirely satisfied with lighting equipments and fifty per cent more are fairly well satisfied.

It was also found that sixty-nine per cent of the plants buy their power rather than maintain their own generating plants, and that a large proportion of the remainder buy at least a part of it.

As the survey was made through the dense industrial centres of fifteen states, among them New York, Pennsylvania, Connecticut, Massachusetts Ohio, Michigan and Illinois, the results may be taken as typical of manufacturing conditions throughout the country.

Cunard Currents

THE new home of the Cunard Line, now under construction at 25 Broadway will be, when completed, the largest office building on the Edison System. Twenty-one stories high, it will have a cubical content of twelve million feet, will be lighted by 17,000 lamps and will include a motor installation of some 3000 horse-power.

One of the most striking features of the new building will be the large concourse on the main floor, the lofty dome of which will be of greater height than the average six story building. Its beauty will not be marred by cigar stands, news booths, and the heterogeneous minor business ventures, which so often transform a lobby into an arcade. In this great hall the future Cunard passenger will make his arrangements for passage.

The building is of fireproof, skeleton steel construction and will be an adaptation of Italian Renaissance to modern conditions. The skyline is so arranged as to conceal the usual tanks, steam stacks and other necessary paraphernalia of large buildings. The marble used in the building is being brought from a quarry on Mount Pentelicus. This quarry, which has been idle for hundreds of years, is thought to have supplied the stone which contributed to the glory of the ancient Parthenon.

The Spacious Lobby of the New Building of the Cunard Line

When preparing the site for the new structure the house wreckers stirred some historic dust. In 1804 the Stevens House was erected upon the site and became the center of social activity, especially so during the decade preceding the Civil War. The building was remodeled in 1846 and for many years housed the original restaurant of Charles Del-

monico. The razing of the old building brought to light two iron lions which were cast for and adorned the roof when the British Consulate occupied the building.

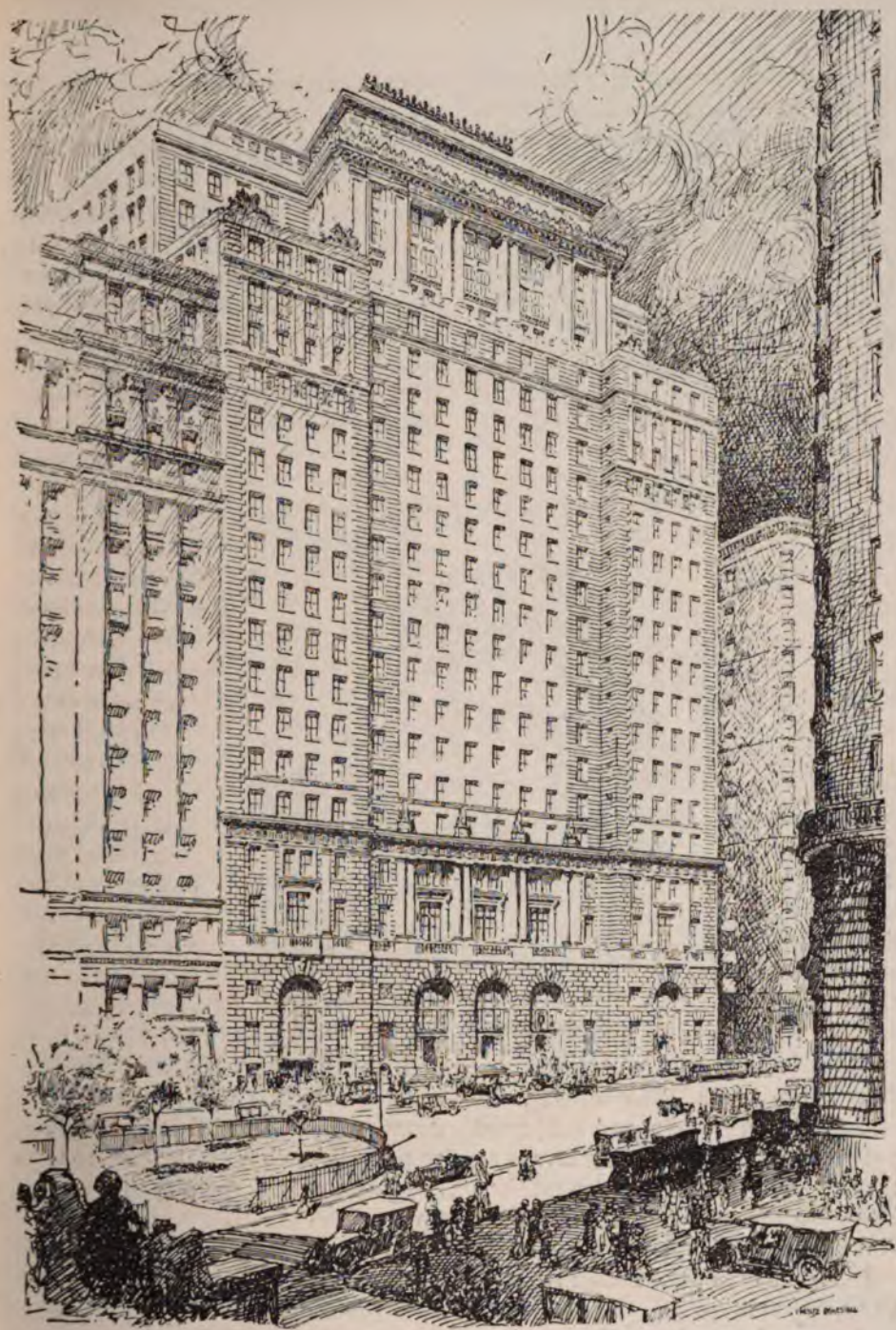
The interest aroused by the new Cunard building has served to recall some of the interesting chapters of trans-Atlantic shipping history. In 1819 the American built *Savannah* demonstrated that steam propulsion was practical. The trip from Savannah to Liverpool, under steam and sail, was negotiated in twenty-two days, on eighteen days of which steam was used. By 1840 Samuel Cunard had developed plans to revolutionize trans-Atlantic travel with steam power and July 4th, 1840, *Brittania* the first Cunarder sailed from Liverpool to Boston, completing the voyage on July 19th and carrying sixty-three passengers. After this historical passage, experiments were made in the North Sea on cargo boats with screw propellers, instead of side wheels, and in 1862 the *China* a screw propelled ship made her maiden trip.

The trend of marine progress in which the Cunard Company has always been a competitor, brought out the *Servia* in 1881, the first steel vessel. The next important step was the use of the turbine, the *Carmania*, in 1905, being the first to use that type of engine. In 1907 the *Mauretania* was placed in commission to answer the demand for "grey hound" trans-Atlantic service.

During the war the Cunard fleet lost forty-five ships, victims of German "Kultur" but performed inestimable service in carrying 900,000 soldiers and 10,000 tons of cargo during the hostilities. The *Mauretania*, the "grey hound," became a St Bernard and served for some time as a hospital ship in the Mediterranean.

Illustration from Valentine's Manual

Steamship Row Opposite Bowling Green, Where the Cunard Line Opened Offices in 1860



Architects Benjamin W. Morris and Carrere and Hastings

The New Cunard Building Near Bowling Green Occupies Historic Ground. An Electrical Installation of 17,000 Lamps, and 3000 Horse-power will be supplied by The New York Edison Company

Nature's Paradox

AWAY back at the very beginning of things when this little old world of ours was in the throes of creation and when all of that which later was to become Us still lay in the state of primeval nothingness, gigantic volcanoes in almost continuous eruption poured their molten contents over vast areas of the new earth. These seas of liquid stone and metal seethed and tossed perhaps through centuries, before, in the great prehistoric cooling of the earth's surface, they gradually became motionless and then solid. Later, either by the action of water or steam, these metalic deposits were cracked and ground into pieces. The mineral, disorganized and broken and subjected to the pressure of congealing lava, was then throughout ensuing ages crushed into a rocky and at the same time fibrous mass which lay century after century all unknown until at last it was presented to the world as the greatest mystery of the mineral kingdom.

Illustrations by Courtesy of Johns-Manville Co

Asbestos Was Used in Making Shrouds for Bodies to be Burned on the Funeral Pyre

The old Greeks called it asbestos, which, being translated, means inconsumable. Compared with other materials the number of properties possessed by asbestos is unparalleled. Wood burns—asbestos is unchanged by flame or by temperatures of 1,500 degrees F; stone disintegrates—asbestos defies erosion; steel rusts—asbestos is immune. It is not strange that this mystery of earth's dawn should have been held in awe by the ancients and that wonderful tales grew with each telling.

That it was the skin and hair of the great Salamander, the beast that lives in fire, was generally believed among the Eastern nations. Here on the continent of North America ancient records show that the early Aztec tribes believed that it was given to them by their god, the Sun, to help keep burning in perpetuity their sacred fires.

In 800 B C Charlemagne astonished his guests at a great banquet by suddenly flinging the table cloth into the fire only to withdraw it unburned or even scorched. Indeed, by this feat the cloth was thoroughly cleansed by the flames. Pounded into

wool in great copper morters, asbestos was woven into cremation shrouds for kings, that after the funeral pyre had burnt, the ashes of the monarch might be recovered intact.

Many of the early explorers brought home tales of this mysterious substance. Marco Polo in 1250 A D returning from his journeyings among the Tartars and the Chinese wrote, "In this same mountain there is a vein of the material from which Salamander is made. For the real truth is that the Salamander is no beast as they alleged in our part of the world, but is a substance found in the earth," and then he goes on to tell how the wool was woven into napkins for the great Khan of Tartary.

Although put to a few practical uses, for a long time asbestos was only a curio of kings. As late as the time of Peter the Great, who set up an asbestos factory in the Urals, interest was so slight that the project was abandoned. But lack of interest was not the chief obstacle. The difficulty with which the material was quarried was very great, due principally to the total lack of adequate machinery. The subsequent process of refinement, done entirely by hand, was also extremely slow and laborious, thus offering an almost insurmountable obstacle to the practical development of the mineral.

In 1862 occurred an epoch making discovery of asbestos in the province of Quebec and a partial revival of the industry. No less than seven big quarries were in operation in this vicinity by 1885, but even then, after the first excitement, the industry flagged. The finished product, due to the fact that the production itself was costly, was altogether too expensive.

But by this time the actual com-

Charlemagne Astonishing His Guests by Exhibiting the Table Cloth Used at a Banquet Cleansed and Whitened by the Action of Fire

mercial and economic value of asbestos had in a measure been realized and new uses to which the material might be adapted were anticipated should some mechanical means for its inexpensive production be invented. This need of developing a wholly mechanical operation started experiments in 1889. What these experiments were and how their outcome resulted in the use of electricity in the production of asbestos, will be treated at length in a subsequent article.

Co-operation Cuts Costs

When the cost of trucking by horses advanced almost fifty per cent over night, a few of the paper dealers of New York decided the time had come to overhaul their transportation methods. As a consequence fourteen jobbers of book papers have pooled their transportation problems and have organized the Drayage Corporation, a co-operative concern which does an increasingly large part of the hauling of the paper used by New York printers.

Naturally the work involves very heavy loads and of the four electric trucks which make up the transportation fleet, three are designed especially for their paper carrying work. With their storage battery tractors, underslung bodies clearing the street by a scant two feet, their broad rubber tired wheels, and carrying loads of from eight to twelve tons, they are unlike anything else in the trucking line in the city. The fourth vehicle is the usual type truck long familiar in New York streets.

These trucks have now been in service since the early part of 1918. The first was installed in March and the others followed as fast as the builders could make deliveries, until by July the entire fleet was in service. So satisfactory has been their operation that two more have since been ordered.

These two new trucks are now being built by the Commercial Truck Company, and they will be in service during February or March. Like the first trucks they and their trailers are rated at ten tons capacity.

Before the organization of the Drayage Corporation each of the paper jobbers had handled his trucking independently, either hiring horse drawn trucks as they were needed or calling in a truckman when a carload of paper was reported at the railroad station. Under this system there were many delays, demurrage charges to be paid and, of course, the always present factor of increasing costs which finally went from a dollar to a dollar and forty cents a ton.

It was that forty cents that caused the paper dealers to look about for some way to keep delivery costs down, with the result that the waste of old individual methods was recognized and the determination was reached to pull together in an effort to hold down expenses.

The concerns served by the Drayage Corporation are in the wholesale paper district in the lower part of the City, except for the ever increasing number who are moving up-town, and at the same time almost all shipments of paper coming to New York are unloaded on the North and East River piers below Fourteenth street. And as the bulk of the hauling was to be big loads between these piers and the warehouses it was recognized that the requirements to be met were

principally dependability of operation and great load carrying capacity. Speed was recognized as a non-essential for the dense traffic on the waterfront streets and in down-town New York makes high speed impossible.

With these conditions in mind the traffic managers of the Drayage Corporation set about to study the various types of vehicles in use. Their studies soon showed that the storage battery vehicle was well suited for this special work and the fleet of four trucks, already described, was decided upon. Whatever confirmation of judgment may have been needed, has been amply evident during the past year.

Although these trucks have been used during a period when conditions of all kinds were far from normal they have demonstrated beyond question their superiority over other methods of transportation. Despite teamsters strikes, longshoremen strikes, harbor strikes and the print shop close-down, the electrics have proven so economical and satisfactory as to warrant the purchase of the additional vehicles.

The trucks met one of their severest tests following the recent light snow storms. These snow falls did not pile up heavy drifts for traffic to fight against; instead they created conditions which were worse than deep snow, for the light fall snow packed down to a hard slippery surface.

While horses were slipping and sliding on this uncertain footing the electrics had no difficulty at all in gaining traction, and they made their rounds without any loss of time. Indeed it was not even necessary to install the usual skid preventing devices on the tires.

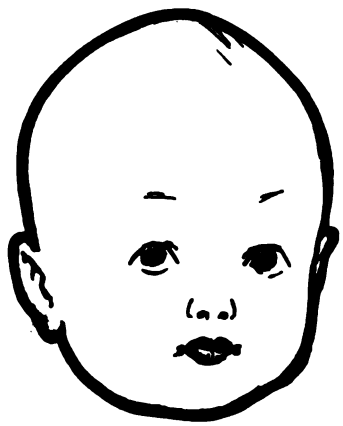
Photograph by The New York Edison Compan

The Low-hung Body of the Electric Trucks Used by The Drayage Corporation Makes It Easy to Handle the Heavy Cases of Paper. There are Three Trucks of This Type in Service

Care of Me

YAH-H-H-UH! Where am I? Oh, I remember. This is the nursery, and I am beginning another day. I presume it will be a long, hard day for me. For three months now I've been trying to educate my family to my way of thinking and doing. To-day I hope to finish the job.

I don't know who Electricity is but he runs the nursery next door. I've been talking it over with the baby there and we both think that he ought to run my nursery too. Nurse need not worry about the change for she would have more time for herself, not to mention the fact that she would not have to bother me so much with her fussing around.



Where do you suppose Nurse is? I've been awake for several minutes. Wish I could get my hands outside this wooly thing they've got me buttoned up in. Nurse knows that I dislike it, or she ought to from the look I gave her the first time she put me in here. Wish they'd close the window 'cause my nose is cold. Why doesn't she come? Why are grown-ups so slow about attending to us infants? Guess if I yell someone will come. Maybe I'd better begin gently.

It's been 'most a minute since I made a noise. Ah, here she comes. Hope she's got my bottle with her, 'cause I'm empty. For goodness sakes, I do believe she has one of those electric milk warmers! Now we'll have service.

Um m-m. Just right! When a feller's hungry what could be better than this? And see how that thing shines. I want that funny black button. Wish I could reach it. Queer that I don't see Mr. Electricity around anywhere. Wonder where he hides. This is good. To think that I'll have to wait three hours before I can have some more.

Dear, dear, I must have fallen asleep again. It's nearly time for my bath. You see how busy I am. If it's not one thing it's another. Efficiency, that's our motto. Gracious! What is that thing on the floor? It has a wire mask on its face, and its nose is bright red. It's glaring at me! I'm glad they tied it to the wall, but I wish Nurse would come. Ah—take me, quick! I hope the thing is friendly. Why, it's warm! Guess I am going to like it. It must be an electric radiator. The baby next door has one. His nurse hangs his clothes in front of it before she dresses him and when he gets them on they are all comfy inside. Oh! See how it glows. I don't think I shall mind my bath at all now, it is so cosy. I hope they don't spoil everything by jabbing me with pins and getting powder up my nose. Someone is always taking the joy out of life.

The day is going to be better than

I thought. I really believe that my family is reforming. Goodness knows I've done my best to bring it about. After I had been dressed for this ride, Nurse suddenly spread my perambulator robes in a pile on the table and slipped a floppy looking thing into them. It was hitched to the nursery table lamp socket. I heard her call it an electric heating pad and say something about using it for a hot water bottle. She mentioned degrees, whatever they are, one hundred of them belonging to a Mr. Fahrenheit. Such funny words! Anyway, when she covered me with the blankets they were all nice and warm. Wasn't I glad? Um-m.

There is one thing that I do object to seriously and that is this bonnet. Just look at these silly frills. Aren't they disgustingly effeminate? Of course Nurse is proud of them for she ironed them herself with a tiny electric iron that can reach its nose into the smallest places. I'll admit that it is a convenient little model to have around the house. It does make my clothes look nice, and I am particular about my laundry. There is a special washing machine in

the house next door, made just for baby clothes, although I heard Nurse say that it was big enough to do a few sheets. That is the next thing I expect we'll have. You see we are progressing and I am to be thanked for it all, although of course no one knows about that but myself. Yesterday I began to cry just as we were passing the electric store. Nurse stopped and saw the milk warmer in the window. That started things moving. I just knew I could do it! By next summer, which they say is very warm, I hope to have an electric fan in my nursery. Its breath is not hot like the radiator's, but cool like outdoors. It laughs at you with twirly wrinkles all over its funny flat face. I really must have one because I want to keep in step with the times.

Twinkle, twinkle!

Twinkle, twinkle little star,
How I wonder what you are!
So the good old nursery rhyme
Told us in the olden time.

Stars are dimmed now every night
By the bright electric light;
Dazzling suns, like orbs of day,
Scare hobgoblins far away.

—Arthur E Scott

Battery Park

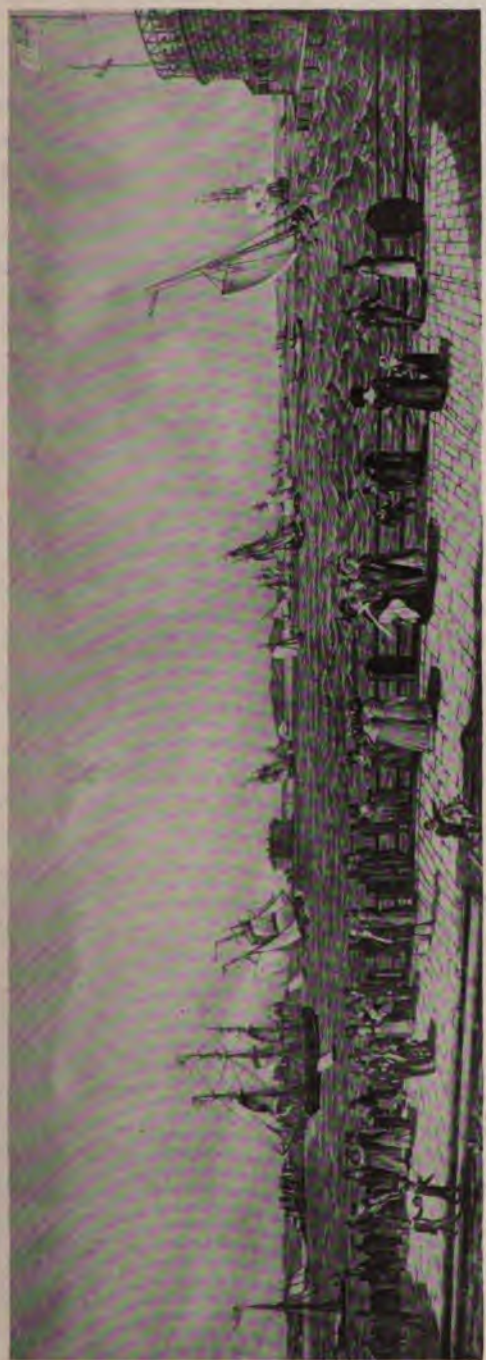
THERE are many things around old Battery Park that take us back to the very beginnings of New York. The Custom House which is directly east of the Battery is on the site of the first building erected by the Dutch—Fort Amsterdam. The site is also reminiscent of the days when New York was, for a few brief months, the proud capital of the then newly formed Republic. An ambitious project had its inception here. The old Fort was demolished and on its site rose an imposing building to be known as the Government House to be occupied by Washington and to house the two departmental branches of the Government—the House and the Senate. Looking backward, the mind is fascinated by the possibilities that might have been achieved in the development of a Capital located on the shore of so glorious a harbor as New York's. Undoubtedly there would have arisen here a group of buildings that would have bewildered the beholder. There is scarcely a limit to the imagination when one considers the location for such a purpose. But that opportunity has been irretrievably lost.

Along about 1816 the Government Building was burned and shortly after completely removed. The land was then sold to private persons and a row of imposing dwellings built on the site and Bowling Green, as it was called, became the most exclusive and fashionable residence block in the city. Many well known citizens—the Remsens, Suydams, Whitneys, Gracies, Coles, Ludlows and Lenox's made their homes here and at a later date Commodore Vanderbilt occupied the corner house at State Street.

Notwithstanding all their grandeur these houses were without what we call today the most ordinary conveniences, running water, gas, furnaces and baths. Wood fires in grates furnished most of the warmth although anthracite or "Sea Coal" as it was known began to be used. In the great fire of 1835 smoke tarnished the silver and all but ruined the ornate hangings and furnishings.

During the Civil War the Battery was in a turmoil from morning till night with all the hustle and bustle

The Battery and Lower New York in the Days When It Was Known as New Amsterdam



Illustrations from Valentines Manual

The Promenade Along the Battery Sea Wall in the Days When Clipper Ships, Packets and Men-of-War Dotted the Harbor

incident to the movement of troops and supplies. To add to the discomfort it was also used to intern prisoners from the South. It can readily be imagined therefore that the quiet repose and dignity which formed the main attraction of Bowling Green had been completely lost. In the late 60's the Cunard Line opened an office in one of these houses which was the signal for the hasty exit of the remaining tenants. In a short time all the other transatlantic lines followed the lead of the Cunard and many of the present generation can recall this street under the name by which it was known the world over, "Steamship Row." Such was the fate of stately Bowling Green.

The Park itself was for many years a popular parade ground and on Saturday afternoons and on Summer evenings presented a gay and animated appearance. A sea wall had been constructed on which was built the first of our "board walks." A few yards from shore darkies were wont to appear in small row boats play the banjo and guitar and gather in a few pennies from their appreciative listeners.

In the days of the Clipper Ships "steamer day" was quite an event. The old packets would drop down the river, anchor off the Battery, and wait the arrival of the

finishing loads to the cargoes and incidently the full complement of their ships' crew. These were supplied largely by "shanghaiing"; that is some poor wretch of a sailor hopelessly drunk would be rowed out to the ship and deposited there to wake up in the morning to find himself bound for Liverpool, Calcutta or Melbourne.

The songs of the Chanty man as the vessel tripped anchor could be heard clear up to Broadway. They said that a good Chanty man was equal to two on the watch. To the accompanying songs, anchors were hoisted, sails spread to the winds, and in a few minutes with a bone in their teeth, these square rigged beauties would be speeding for the ocean, not to be heard from again in days. In the case of the Liverpool packets, friends of the passengers accompanied the ship as far as the Narrows. They were then transferred to what was considered a veritable maritime marvel in those days—a small side wheel tug propelled by steam.

From the deck of the tug last farewells were waved to their friends on the fast receding clipper and the return journey began to the City.

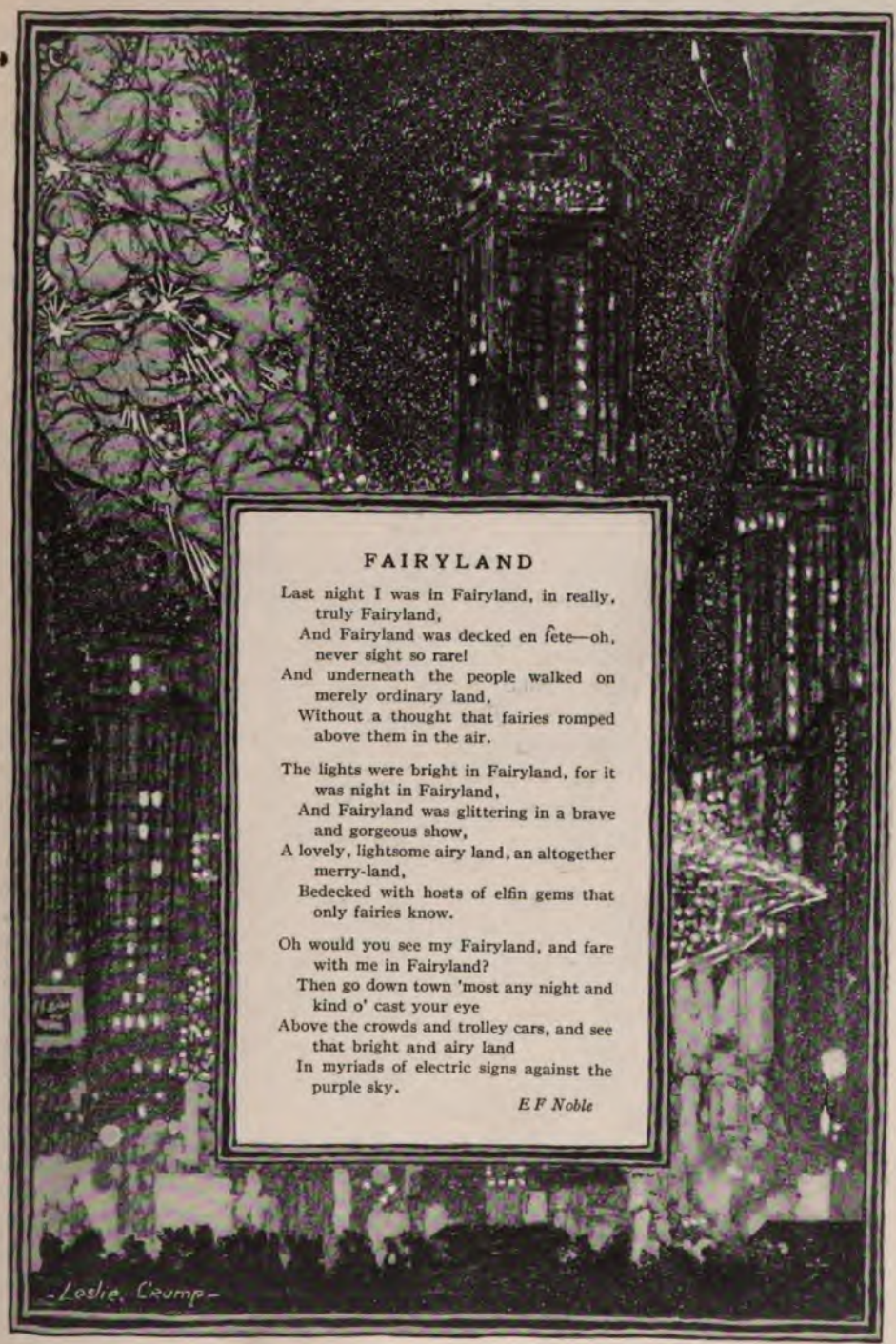
The Origin of Some Street Names

Whitehall Street, just east of the Custom House, reminds us of Governor Stuyvesant's private residence which stood there and was called "Whitehall." After Washington bade farewell to his officers in Fraunces' Tavern at Broad and Pearl Streets he embarked at the foot of Whitehall Street for Annapolis, there to resign his commission and retire to private life. Bridge Street recalls the long bridge that spanned the Canal on Broad Street, and Stone Street was the first street in the City to be paved with stones. Marketfield Street was for many years, under the Dutch, the scene of a yearly cattle show or market.

The plot that now forms Battery Park is almost wholly filled in land. The shore formerly came up to the end of Broadway at Battery Place. In 1851 it was filled in to almost its present dimensions. Castle Garden, now the Aquarium, was distant about 200 feet from the mainland and was a popular concert garden seating a large number—some say 8,000 persons. Jenny Lind sang there under Barnum's management, an event still widely recalled in the annals of old New York. It was originally a fort—Castle Clinton and was constructed in 1812 as part of the harbor defenses.

The trees in the Battery in early days were of extraordinary beauty and the birds numerous. The beautiful sight of the shipping in the harbor, mostly clippers and packets and all maneuvering under the power of their own sails, made a picture the like of which will rarely be seen again. The homes facing the battery were, indeed, delightfully located and this neighborhood for many years before Bowling Green was built was considered the most desirable in town.

The famous Landing Stage where all our distinguished visitors have been received, from Lafayette to the young Prince of Wales, is on the western side, just south of the Dock Commissioner's office on Pier 1. From there the guest proceeds up the famous Broadway canyon to be formally welcomed at the City Hall.



FAIRYLAND

Last night I was in Fairyland, in really, truly Fairyland,
And Fairyland was decked en fête—oh, never sight so rare!
And underneath the people walked on merely ordinary land,
Without a thought that fairies romped above them in the air.

The lights were bright in Fairyland, for it was night in Fairyland,
And Fairyland was glittering in a brave and gorgeous show,
A lovely, lightsome airy land, an altogether merry-land,
Bedecked with hosts of elfin gems that only fairies know.

Oh would you see my Fairyland, and fare with me in Fairyland?
Then go down town 'most any night and kind o' cast your eye
Above the crowds and trolley cars, and see that bright and airy land
In myriads of electric signs against the purple sky.

E F Noble

Decoration by Leslie Crump

Photograph by The New York Edison Company

Even the most casual observer pauses before the show window of Samuel Frost at 41-43 West 14th Street. He realizes that there is an atmosphere about the place. Stepping inside he finds something that he has not seen elsewhere in showroom displays. A series of "electric shops" extends along one side of the interior. Each shop has its own tastefully arranged show window facing the side aisle of the store proper. Each has its own entrance completing the effect of a row of interesting shops. There are four of them, a unique arrangement for display of fixtures and portables

Manufacturers and Agents (Continued from Page 4)

Motors

Inspection—Maintenance—Repairs (Cont'd)

Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—48 East 8th St
Cutter F B Co—50 Church St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Florandin & Co Chas H—110 West 40th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St

Signs Electric

Bofinger Bros—146 East 42dSt
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L (Flexlume Sign Co)—560 Seventh Ave
Universal Elec Stage Lighting Co (Kliegl Bros)—240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 ChurchSt
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1123 Broadway

Specialties

Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers)—1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes)—114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Household Service—21 E 40th St
Duntley Products Sales Co—295 Fifth Ave
Duparquet, Huot & Moneuse—108-114 W 22nd St

Manufacturers and Agents (Concluded)

Vacuum Cleaners (Concluded)

Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St.
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers) —11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—42 East 23rd St.
Lightolier Co—569 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co (Geyser) —35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)—119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Killoch David Co—57 Murray St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Nugent Electrical Supply Co—7 W 29th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 196—M Zuckman
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Varick St 203—Riccio Electrical Contractors
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 92—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1170—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 8th St 48—American Pressing Iron Co
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker National Fire Prevention Engineering Company
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co
Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co

Wiring and Installation Contractors (Concluded)

Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Madison Ave 407—Manhattan Elec Cont Co
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 731—Metropolitan Electric Co
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 81st St 229—Edward Zenker
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
Park Ave 1630—Wimple Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 152nd St—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 11½— S W Mills
East Fordham Road 273—Endi
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barclay St 109—Spilger Electric Co
Barrow St 25—Jos Torre
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beaver St 45—Welborne & Co
Beekman St 96—Naumer Electric Co
Bleecker St 13—Schwartz & Blumengarten
Bleecker St 122—A Epstein
Broad St 39—Beaver Electric Co
Broad St 68—Broad Equip Co of N Y
Broad St 122—Stewart-Dickson & Co Inc
Broadway 1—William Vautin
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Electric Co
Broadway 302—Harry Weinstock
Broadway 335—Monowatt Elec Import Co
Broadway 371—Rabinowitz & Kluger
Broadway 383—A Edelman
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 435—Radiant Electric Lmp Co
Broadway 489—Sunlight Electric Co
Broadway 525—Edison Fixture Co
Broadway 569—Lightolier Co
Broadway 652—New Era Appliance Corp
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 243—Van Ben Thuysen Robt Co Inc
Canal St 261—Stransky Mfg Co
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 392—Welsbach Gas Lamp Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 196—Max Zuckman
Centre St 231—Worth Electric Co
Chambers St 101—Broadway Hardware Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Chatham Square 2—Louis Abrahams
Church St 30—Wm Braun
Church St 30—H P Copeland
Church St 30—P A McGuire
Church St 50—F W Collins
Church St 50—Standard Drug Co
Church & Vesey Sts—Metropolitan Hardware Co
Cleveland Pl 25—Globe Electric Co
Cooper Square 10—Philip Addison
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin
Cortlandt St 39—W S Broadhurst
Cortlandt St 42—Terminal Cycle & Sporting Goods Company
Cortlandt St 70—Cortlandt Bicycle & Electrical Supply
Cortlandt St 70—W R Pabst
Cortlandt St 84—Bleyle Electric Co
Dey St 48—John J Leahy
Dey St 62—A E Gelling
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 52—Flitner Atwood Co
Front St 62—William E Williams
Front St 124—Charles Davidson
Front St 162—W S Pendleton Jr & Co
Front St 194—E George & Co
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 110—Marlen Hdwe Co
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Fulton St 248—Williams & Wells Co
Gold St 13—Anderson & McKenzie
Gold St 46—Van Axen Elec Co
Grand St 162—Adam Kalb
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 211—Interborough Lighting Fixture Co
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 185—Weyant Electrical Supply Co
Greenwich St 255—G M Ross
Greenwich St 293—King Electric Const Co
Greenwich St 460—A F Beckman & Co
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 84—Alfred Whiteley Inc
John St 99—T Frederick Jackson Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 95—John W Hooley
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Chas W Osburg Co
Liberty St 123—Smith-Meeker Eng Co
Liberty St 126—Thomas & Johnson
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 91—Weber & Jones
Mott St 44—Quong King Long Co
Murray St 23—Stanley & Patterson
Murray St 37—Fensterer & Ruhe
Murray St 43—Conlan Electric Co
Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 140—Reid-Yeomans & Cubit Inc

Authorized Mazda Lamp Agents (Continued)

Nassau St 145—N Y Supply & Inspection Co
Nassau St 154—Minato Honga Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 15—United Adjustment Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 35—Henry A Kissel & Co
Pearl St 39—Commercial Construction Co
Pearl St 116—Kelting Electric Co
Pearl St 550—E B Latham & Co
Prince St 44—Louis Iorio
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 81—H & F Metzinger
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
State St 5—C K Webster
Sullivan St 29—Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Varick St 203—Riccio Electrical Contractors
Vesey St 59—L Gabler & Sons
Vestry St 35—Northwestern Electric Equip Co
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 97—Wm E Glaeser
Warren & Church Sts—Perlman Auto & Cycle Supply Co
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
West Broadway 176—O M Matzen
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 491—Acme Machine & Motor Co
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West Houston St 20—Stein Manufacturing Co
West St 90—Peters & Peters Inc
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
White St 39—Wm Rouguett
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
Wooster St 33—Paul Silverstone

East Side District

Avenue D 2—The New Interboro Electric Co
Avenue D 53—Barnett Rosenberg
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 147—N Hirschfeld
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 283—Dulberger Sup Co
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—Pioneer Lighting Fixture Co
Broome St 327—N Y Gas Light Co
Clinton St 91—A Z Electrical Supply Co
Delancey St 25—Wm H Blank
Delancey St 84—Frank Silverman
Delancey St 188—Louis Boritz
Division St 87—Soffen Brothers
Division St 133—Lincoln Cont Co
East Broadway 88—Minkowitz & Cohen
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 93—I Berkowitz
East Houston St 170—D Stein
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 36—Max Leaf
East 4th St 69—Eastern Electric Works
East 4th St 75—Charles Lipschultz
East 4th St 128—Isadore Schajowicz
Essex St 62—Public Elec Supply House
Essex St 172—W Katz
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 142—J Zucker
Forsyth St 182—Ben Goldberg
Henry St 121—James Drucker
Ludlow St 69—Chas I Silberman
Ludlow St 144—Louis Yuster
Monroe St 11—Anglo Amer Elec Co
New Chambers St 4—Louis Purcaro
New Chambers St 22—Clover Electric Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Pike St 30—Freeman Bros
Rivington St 11—Tito Electric Co
Rivington St 265—M Franzblau
Second Ave 73—J Brown

Irving Place District

Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1133—Electrical Consumers Adjustment Corporation
Broadway 1155—Empire Electric Co
Broadway 1161—Antler Elec Co
Broadway 1170—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 10th St 30—Spero & Cohen

Authorized Mazda Lamp Agents (Continued)

East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 13th St 34—A L Todd
East 14th St 7—William Landau
East 14th St 10—Acme Electric Co
East 14th St 10—Automatic Awning Control Device Corp
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 17th St 3—Fruhling Art Light Co
East 17th St 18—Metropolitan Elec Lamp Co
East 22d St 18—Consumers Elec Lamp & App Co
East 22d St 27—Charles Elec Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—William Fredericks
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 334—Wm Purdy
Fifth Av 63—Edison Lamp Service Co Inc
Fifth Ave 75—H M Walter
Fifth Ave and 26th St—Park & Tilford
First Ave 312—A Koppeman
Fourth Ave 108—I Gluck
Fourth Ave 110—B H Turecan & Co
Fourth Ave 121—Borough Elec Co
Fourth Ave 125—A Wangerin
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 130—Goldberg & Rubenstein
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Seventh Ave 182—Finkelstein Bros
Seventh Ave 189—E Christensen
Seventh Ave 219—Subway Hardware Co
Seventh Ave 227—The Little Electric Co
Seventh Ave 243—Keppler Bros
Seventh Ave 296—B Adler
Sixth Ave 164—McGeady Electric Co
Sixth Ave 182—Geo H Bingler
Sixth Ave 183—M A Karp
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 431—Siegel & Rittner
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—Acorn Electric Cont Co
Tenth Ave 239—I P Frink Inc
Tenth Ave 246—Robert F Hitchman
Third Ave 182—Metz-Solars & Co
Third Ave 184—Henry Green
Third Ave 238—G & P Elec Supply House
Third Ave 384—D B Pershall & Son
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 54—Radice Electric Co
West 13th St 408—Bullock Mfg Co
West 14th St 41-3—Sam Frost
West 14th St 112—Raphael, Morris & Co Inc
West 14th St 131—Harry J Mabs
West 14th St 132—Acme Lighting Fixture Co
West 14th St 232—Wm H Crary
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 15th St 22—Simes Co
West 16th St 4—Central Elec Supply Co
West 16th St 111—E Korkes
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 21—Rambam & Rosenberg
West 17th St 44—Rambeau & Sheflin
West 17th St 48—Beidner Elec Co
West 17th St 105—Manhattan Elec Ltg Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 227—Lighting Eng Service Co
West 19th St 8—Biglin & Moffatt Lamp Co
West 19th St 25—Horowitz & Leff
West 19th St 40—Lewis Harbitter
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 27—Import Sales Co
West 20th St 120—Reliable Sewing Machine & Electric Co
West 21st St 9—Ferber Electric Co
West 21st St 66—D C Electric Co
West 21st St 117—Morris Gika
West 21st St 162—Chelsea Elec Motor Rep Co
West 23rd St 235—Eastman Kodak Co.
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Goodman Jablon
West 24th St 105—Samuel Vogel
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Authorized Mazda Lamp Agents (Continued)

Forty-second Street District

Broadway 1215—B W Glick
Broadway 1358—Siems & Co
Broadway 1368—Arrow Electric Shop Inc
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1409—A & A Electric Co
Broadway 1416—H R Lockwood Co
Broadway 1416—Elec Service Eng Co
Broadway 1476 Suite 1013—American Electric Construction Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
Broadway 1743—Times Square Auto Sup Co
East 29th St 34—Albin Gustafson Co
East 29th St 41—S H Kline
East 30th St 2—Simpson Electric Co
East 30th St 8—Electric Magnet Co
East 32nd St 19—R E Leve
East 38th St 151—Sussman & Sussman
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 41st St 104—J Livingston & Co
East 42nd St 18—Herbert & Huesgen Co
East 42nd St 146—Bofinger Bros
East 42nd St 236—H F Electric Co
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 17—Black & Boyd Mfg Co
East 48th St 201—Tiedelmann & Bohrer
East 52nd St 19—White Allom & Co
East 57th 206—Paul F Weinbeer
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
East 59th St 241—S A Ecker
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 347—B & B Sign Co
Fifth Ave 417—Underwood & Underwood Inc
Fifth Ave 503—A W Haire
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
First Ave 867—Al Beuler
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Building—Concourse Electric Shop
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave 331—Herz Pharmacy Co
Lexington Ave 589—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Lexington Ave 769—Colonial Gvt & Elec Cont Co
Madison Ave 236—Walsh Electric Supply Co
Madison Ave 361—Tiffany Studios
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 619—Frankle Alffias
Madison Ave 631—Kellog & Bertine
Ninth Ave 604—Geo Unsold
Ninth Ave 630—Nathan Marks
Ninth Ave 767—Isidor Brand
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Seventh Ave 358—Bazaar Franko American
Seventh Ave 468—Bank Elec Co
Seventh Ave 515—Van Beuren & N Y Bill Posting Company
Seventh Ave 560—L L Strauss
Seventh Ave 729—Howell's Cine Equipment Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 636—Fred B Zender
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 947—John W Flint
Sixth Ave 1009—John T Whitehead
Sixth Ave 1093—Mt Morris Auto Sup Sta
Tenth Ave 486—Geo E Valley & Bro
Tenth Ave 672—J G Gloecker
Tenth Ave 755—H F Lutters
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 444—Fred Hardy
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 518—Davis Bros
Third Ave 563—I Bergstein
Third Ave 631—Chelsea Electric Co
Third Ave 647—Julius Gabler
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co

Authorized Mazda Lamp Agents (Continued)

Third Ave 918—Sidney Frey
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 29th St 103—Tip Top Sewing Machine Co
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 128—Joseph Gershon
West 30th St 151—Alpha Electric Co Inc
West 30th St—Jaffer Electric Co
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Company
West 31st St 28—West Side Electric & Tinsmithing Co
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 31st St 153—Kresel & Crasno
West 32nd St 130—W F Irish Co
West 33rd St 221—E J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 419—Gordon & Koppelson
West 36th St 126—Metropolitan Elec Sup Co
West 37st St 55—Eagle Electric Co
West 37th St 58—Roesser Studios Inc
West 38th St 47—Samuel Jawitz
West 38th St 66—Herald Lamp Service
West 40th St 64—J Bank
West 40th St 105—Publicity Clock Co
West 40th St 143—Smith Elec Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 103—Teale Supply Co
West 41st St 232—Paramount Elec Const Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 442—Sharlow Bros Co
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 47th St 310—H J McKinnon
West 48th St 168—Progressive Poster Exchange
West 48th St 244—M Schweiger & Co Inc
West 48th St 415—Fisch Elec Sign Co
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52d St 136—Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 301—Rialto Electric Shop
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 149—L Segalbaum
East 81st St 444—B Lovinger
East 84th St 158—Gabriel Erdos
East 86th St 148—Rose Electric Co
East 86th St 341—L S Metzger
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1576—Joseph Corak
First Ave 1685—McCord O. Scherer & Co
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Co
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1828—Zoltan Hartmann Elec Co
Second Ave 1838—P Stein
Third Ave 1011—J M Kohlmeir
Third Ave 1055—F Gretzer's Sons
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Jas Gear

Authorized Mazda Lamp Agents (Continued)

Third Ave 1286—F & B Electrical Co
Third Ave 1298—J Rappaport
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1460—Circle Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1501—M Eberhart & Son Co
Third Ave 1545—N W Altman Co.
Third Ave 1636—Benjamin Phillips
Third Ave 1658—Electrical Maintenance Co
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 97—Max Weiss
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 326—1 H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—B Murphy
Amsterdam Ave 941—Julius C Belmonte
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Markle Hardware Co
Amsterdam Ave 989—Marcus & Klein
Amsterdam Ave 1084—Samuel Garnter
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1641—Gold Rose Hardware Co
Amsterdam Ave 1814—Louis Flato
Amsterdam Ave 2232—Samuel Greenberg
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1834—Trop Specialties Co
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1987—King Tire Co
Broadway 2104—Modern Ltg Co
Broadway 2142—C B Montagriff
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2299—M J Kane Inc
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 112th St—Park & Tilford
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 262 John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3181—Dorb Drug Co
Broadway 3906—M Lewis Inc
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 26—Magneto Elec Generator Co
Columbus Ave 144—E May Inc
Columbus Ave 171—N Vincenzi
Columbus Ave 189—Budnick Bros
Columbus Ave 196—Columbus Elec Co
Columbus Ave and 72d St—Park & Tilford
Columbus Ave 220—T F Carr
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—Alexander C Paterson & Son
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Sup Store
East 112th St 173—Behl Electric Co
East 113th St 21—Modern Elec Cont Co
East 115th St 58—M S Rosenfeld Bros
East 116th St 204—Empire Gas & Elec Fix Co
East 125th St 17-19—F J Rush
East 125th St 48—Irving Bropp
Eighth Ave 2073—Phil Epstein
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2371—West End Bee Hive
Eighth Ave 2441—A E Jackson
Fifth Ave 1410—S J Eisner
Hancock Place 3—National Combination Gas & Electrical Fixture Company
Lenox Ave 22—Morris Perla
Lenox Ave 151—Louis Saphier
Lenox Ave and 126th St—Park & Tilford
Lenox Ave 346—Herman Young
Lenox Ave 394—S. Lichtenstein
Lenox Ave 403—Lenox Elec Co

Authorized Mazda Lamp Agents (Continued)

Lenox Ave 468—Frank & Meyers
Lenox Ave 603—Herman Pinkiert
Lexington Ave 1855—Shane Electric Co
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1889—Gristede Bros Inc
Second Ave 2236—A Freeman
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 1121—Arrow Elec Shop Inc
St Nicholas Ave 1422—Manhattan Lamp Service Co
St Nicholas Ave 1368—Le Mar Supply Co
St Nicholas Ave 1511—I Selly
St Nicholas Ave 1617—Henry Green
Third Ave 2098—Iron Spec Co
Third Ave 2352—Chas Mann & Co
West End Ave 165—F W Astarita
West 61st St 16—Asch & Co Inc
West 66th St 161—Leo Strus
West 70th St 104—Samuel Moses
West 70th St 236—S A Friedman
West 72nd St 172—John B Campbell
West 72nd St 176—Kaufman & Burkert
West 82nd St 221—Gertler Elec Co
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 118th St 430—Morningside Elec Supply Co
West 125th St 125—I Davega, Jr
West 125th St 125—L Davega Inc
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—E A Briggs
West 125th St 215—M J Heller Elec Co
West 126th St 301—C O Alberga & Co
West 127th St 602—James Cunneen
West 135th St 107—C M Moten

Bronx (Melrose District)

Boston Road 1304—Mayo Lighting Fixture Co
Brook Ave 172—S Dworkin
Brook Ave 520—M Goldman
Burnside Ave 4—F B Electric Co
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 149th St 358—Weber Supply Co
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 152d St 726—Joseph B Josephson
East 152nd St 739—Gustav Abramowitz
East 152nd St 835—J Lowe
East 153rd St 404—Joseph Mancusi
East 160th St 770—Jacob Garten
East 161st St 615—J F Smith
East 163rd St 736—Sayles Electric Co Inc
East 163rd St 965—Isidor Schohan
East 163rd St 1029—Globe Elec Lamp Co
East 167th St 460—M Schwarzler
East 169th St 535—B Weiss Electric Co
East 169th St 638—Max Berminer
East 169th St 936—Mathew Sussman
East 177th St 1753—C H Wallace
Forest Ave 947—Ed Gorodess
Freeman St 860—Sidney Cannold
Freeman St 879—L Drescher
Hunts Point Ave 895—Max Maged
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Intervale Ave 1008—B G Roeber
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 950—Louis Gladstein
Longwood Ave 972—Adolph Greenblat
Melrose Ave 558—Hub Elec Supply Co
Melrose Ave 776—Ed O Steinoch
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mahler Electric Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1074—Rapid Elec Cont Co
So Boulevard 1308—Louis I Waldman
So Boulevard 1319—Jacob Katz
So Boulevard 1327—A Dressner
St Ann's Ave 342—S Wishnevsky
Stebbins Ave 1142—Walshin Bros
Teller Ave 899—George Venney
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2718—A L Biltchick
Third Ave 2744—S Spiero
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Gurland
Third Ave 3151—We Lektrify U Corp
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3808—Adolph Siegel
Union Ave 673—R J Atherly
Union Ave 767—Henry Cohen
Washington Ave 937-1037—M Regelson
Washington Ave 1226—Leopold Altman
Washington Ave 1631—Yorkville Elec Fix Co
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 796—Kessler & Steinman
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Elec Shop Inc
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Westchester Square 134—D S Robinson
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias
Willis Ave 478—M P Weintraub

Bronx (Tremont District)

Audubon Ave 335—Wm Ward
Boston Road 1360—Joseph Leckart
Boston Road 2017—H Von Hadeln
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co

Authorized Mazda Lamp Agents (Concluded)

East Fordham Road 338—H & M Bloom
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 575—Nonpareil Gas & Elec Co
East Tremont Ave 755—Becker Bros
Tremont Ave 855—Boris J Medove
East 180th St 350—Philip Klein
East 180th St 489—Excelsior Lighting Equip Co
East 180th St 554—A Feig
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 183rd St 68—Ace Electrical Co
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East 233rd St 343—Joseph Reda
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2376—W W Electrical Co
Jerome Ave 2423—J Wollak
Kelly St 1015—G & M Electric Co
Morris Park Ave 685—M W Smith
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
Park Ave 4206—Hugh J Casey
So Boulevard 1881—Louis Flatau
So Boulevard 1941—Abraham Herman
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4197—Adolf Birnbaum
Third Ave 4239—Northern Gas & Elec Fix Co
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2601—Eli Ancowitz
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2775—Rudd Bros
Webster Ave 2787—Fordham Elec Supply Co
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 181st St 553—George Hunter
West 231st St 165—Louis Grossman

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway Office—424 Broadway
East Side Office—124 Essex St
Irving Place Office—10 Irving Place
Forty-second Street Office—124 West 42d St
Eighty-sixth Street Office—151 East 86th St
One Hundred and Twenty-fifth Street Office—15 East 125th St
Bronx (Melrose Office)—362 East 149th St
Bronx (Tremont Office)—Tremont and Monterey Aves

Material-Handling Machinery

Cranes, Hoists and Winches

Alfred Box & Co Inc—Woolworth Building
Alliance Machine Co—Alliance Ohio (No New York Office)
American Hoist & Derrick Co—50 Church St
Brown Hoisting Machinery Co—50 Church St
Chesapeake Iron Works—30 West Broadway
Cleveland Crane & Engineering Co—50 Church St
Clyde Iron Works—50 Church St
Edgar A Brosius—Pittsburgh Pa (No New York Office)
Edward F Terry Mfg Co—Grand Central Terminal
Heyl & Patterson Inc—90 West St
Industrial Works—50 Church St
Lidgerwood Mfg Co—96 Liberty St
Link Belt Co—299 Broadway
Manning, Maxwell & Moore Inc—119 W 40th St
Mead Morrison Mfg Co—149 Broadway
New Jersey Foundry & Machine Co—90 West St
Northern Engineering Works—120 Broadway
Shepard Electric Crane & Hoist Co—30 Church St
The Champion Engineering Co—149 Broadway
The Maine Electric Co—26 Cortlandt St
Victor R Browning & Co—480 Lexington Ave

Gravity and Power Conveyors

Brown Portable Conveying Machinery Co—30 Church St
International Conveyor Co—50 East 42nd St
Mathews Gravity Carrier Co—50 Church St
Robins Conveying Belt Co—13 Park Row
Rownson, Drew & Clydesdale Inc—68 William St
Sprague Electric Works—527 West 34th St
The Alvey Ferguson Co—110 West 40th St
The Lamson Co—15 West 44th St
The Standard Conveyor Co—227 Fulton St
The Jeffrey Mfg Co—50 Dey St
Alvey Manufacturing Co—105 West 40th St

Elevators

Otis Elevator Co—11th Ave & 26th St
Watson Elevator Co—407 W 36th St

Industrial Trucks

Elwell Parker Electric Co—50 Church St
Karry Lode Industrial Truck Co—100 Nott Ave L I City N Y
Lakewood Engineering Co—111 Broadway
Warren & Irrgang—Springfield Mass (No New York Office)
Hyatt Roller Bearing Co—1 Madison Ave

Bulk Handling Machinery

The McMyler Interstate Co—50 Church St
Michener Stowage Co—17 Battery Place
The Wellman-Seaver-Morgan Co—50 Church St

Miscellaneous Equipment

Blaw Knox Co—165 Broadway
Electric Controller & Mfg Co—50 Church St
The Hayward Co—50 Church St
Revolvator Co—Jersey City N J (No New York Office)

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

C—Commercial I—Industrial P—Passenger

Anderson Electric Car Co of N Y (Detroit Electric)—Central Park West at 62d St (C & P)
Atlantic Elec Vehicle Company—30 Church St Suite 422 (C)
Automatic Transportation Co—258 B'way (I)
Baker R & L New York Corporation The—Central Park West at 62d St (P)
Buda Co of Chicago—30 Church St (I)
Comm'l Truck Co of America—405 Lexington Ave (C)
Couple Gear Co—(Clarence L Smith Co Agents) —544 W 30th St (C)
Cowan Truck Co—51 East 42d Street (I)
Electro Coach Corp—50 Church St (Busses)
Elwell-Parker Electric Co (Lucian C & G W Brown Agts)—50 Church St (I)
General Vehicle (Walker Vehicle Co.) — Grand Central Terminal Room 3709 (C)
Healey & Co—1662 Broadway (P)
Hoagland-Thayer Inc—300 Washington Street Newark N J (I)
Hunt Co C W Inc—501 Fifth Ave (I)
Koppel Industrial Car & Equipment Co—30 Church St (I)
Lakewood Engineering Co—111 Broadway (I)
Lansden Co Inc The—50 Church St (C)
Lansing Co—492 Broome St (I)
Mercury Mfg Co—(Truck & Tractor Co Agents) 25 Church St
Milburn Light Electric Co H J McLeer, Factory Representative—725 Ocean Parkway B'klyn
Northwestern Mfg Co—6 Church St
Walker Vehicle Co—Grand Central Terminal Room 3709 (C) (General Vehicle)
Ward Motor Vehicle Co—5736 Grand Central Terminal Bldg also Mt Vernon N Y (C)

Charging Apparatus

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Milburn Wagon Works, Auto Div (P) Toledo, Ohio
Northwestern Electric Co The—1457 B'way
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Charging Apparatus for Ignition, Starting and Lighting Batteries

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St,
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Lincoln Electric Co—149 Broadway
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Electric Co—110 West 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Electric & Manufacturing Co—165 Broadway
Witherbee Storage Battery Co.—643-9 West 43rd St.

Electric Garages

Acker Merrall & Condit Co—536 W 46th St (C)
Edison Storage Battery Co—247 W 35th St (C)
Exide Battery Depots Inc
East Side Garage—141 E 25th St (C)
North Side Garage—West End Ave & 64th St (C)
West Side Garage—527 W 23d St (C)
International Motor Co—252 W 64 St (C)
Electric Garage The—Central Park West & 62d St (P)
474 West 130th Street Garage Inc The—474 W 130th St (C)
Willett's Garage—15 E 58th St (P)
Wright's Garage Inc—18 Audubon Place (P)

Manufacturers and Agents (Continued)

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St

Buffers—Polishers

Barker John H—95 Liberty St
Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadwav
Western Electric Co—151 Fifth Ave and 105 W 40th St

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electric Corporation (Rapid Dish Washer)—119 W 42d St
Livingston, J & Co—104 E 41st St
Phillipson Emil—110 W 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf)—303-305 Fifth Avenue
Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Morison Electric Supply Co—15 E 40th St
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
Electrical Repair Co Inc—240-242 West 25th St
Elevator Supplies Co Inc—1515 Willow Ave Hoboken N J
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)

Manufacturers and Agents (Continued)

Elevators—Dumbwaiters (Concluded)

Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevato· Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Company—151 Fifth Ave & 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bohn C C Electric Co—820 Sixth Ave
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Cincinnati Specialty Mfg Co—39-41 Cortlandt St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Frost Samuel—41-43 W 14th St
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morison Electric Supply Co—15 E 40th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Penn A C—Singer Building
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Roeser Studios Inc—58 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way
Western Electric Co—151 Fifth Ave and 105 W 40th St

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St

Manufacturers and Agents (Continued)

Globes—Reflectors (Concluded)

Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY
Western Electric Co—151 Fifth Ave and 105 W 40th St

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Dover Mfg Co—30 Church St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark Messrs—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom, Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Livingston J & Co—104 E 41st St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Grand Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
C & C Electric & Mfg Co—110 W 40th St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
Livingston J & Co—104 E 41st St
Mechanical Appliance Co (Watson)—39 Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Motors Co—149 Broadway
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wald Electric Motor Co—40 W 4th St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Bohn C C Electric Co—820 Sixth Ave
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const & Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6 E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave

Lists Continued on Page 53

February 1920

The Railroad Depot at 4th Avenue and 27th Street in 1857

VOLUME 12

CONTENTS

NUMBER 2

The Edison Directory

	Page
Department Stores	33
Manufacturers and Agents	33-36, 53-54
Wiring and Installation Contractors	55-56
Authorized Mazda Lamp Agents	57-64
Material-Handling Machinery Manufacturers	64
Edison District Offices with map	Inside Back Cover

The Edison Monthly

	Page
Editorial	38
Random Notes on Old New York	39
The Brownie in the Kitchen	42
Steel Deliveries	44
Song of the Street Light (verse)	45
Ormonde Alterations	46
Nature's Paradox	48
Industrial Heating	50
Thomas A. Edison (photograph)	51

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Lewis B Gawtry, Secretary
Frederick Smith, Treasurer

Perhaps no borough of Greater New York has seen greater industrial expansion during the past five years than the Bronx. With numerous factory sites to choose from, admirable terminal facilities both for shipments by rail or by water, and adequate and economical power, this section of the city has attracted great numbers of manufacturers.

While many lines of industry are represented, there is one respect in which they are all alike. Without a single exception these new manufacturing establishments have decided against the wasteful private electric plant and the private steam plant and are securing power from The New York Edison Company. For instance, during the year just passed no less than twelve such establishments have come to the borough and every one has specified Edison Service for all electrical needs. Eleven establishments which formerly produced their own power, decided during the year to abandon their plants in favor of central station service.

Sentiment had no part in reaching the decisions in these important cases. It was a matter of service and dollars and cents, every time. The Central Station engineers were able to prove their claims of more dependable service, and lower operating costs.

To the natural attractions of the Bronx, The New York Edison Company has added the final and important advantage of dependable and economical power, thus making the Borough an ideal industrial centre.

Although it is but recently that electrically heated garments have become generally available for aviators the idea is by no means new. As long ago as the winter of 1912 air men made use of electrically heated equipment. The present elaborately wired costume is the direct outcome of the simple electric heating pad which a crew of steeple-jacks used eight years ago while wiring the spires of St. Patrick's Cathedral for the celebration in honor of Cardinal Farley.

That winter, it will be recalled, was cold—so cold in fact that on several days the workmen were able to do but little wiring on the wind-swept spires. The work, with the steeples still only partly wired, became a race against time. It had to be done, cold or no cold, and finally some one suggested that the steeple-jacks be given electric heating pads to strap on under their clothing.

The aviator's electrically heated costume of today, as visitors to the recent New York Electrical Show will recall, includes a rubberized moleskin suit, a wired helmet-lining of silk jersey, wired gloves and wired socks. The helmet, socks and gloves are worn under the regulation leather helmet, leather gauntlets and moccasins. Easily reached switches and plugs make it possible for the flyer to regulate the heat to meet changes in temperature at different altitudes.

Random Notes on Old New York

NOT long ago there appeared in a well known publication in this city, the *Diary of a Little Girl in Old New York*, written about 1849. The writer, who is still living, is a sprightly old lady of some eighty sweet summers, but the city of which she writes seems never to have existed.

She tells us of a delightful visit to the beautiful country estate of a relative then living at the corner of Fifth Avenue and Thirty-seventh Street. Our little friend is not the only one who recalls the buttressed and mediaeval looking castle of Coventry Waddell to which she refers. Behind the imposing residence stretched the smiling wheat field of the farm, clear back to Sixth Avenue.

In this old house was born the idea of uniforming our police force. The grandfather of our ex-ambassador to Germany, James W. Gerard, had long advocated the necessity of clothing the battle watch in something different from the nondescript, variegated, and sometimes mirth-provoking habitants affected by the local guardians of the peace. So at a social function, given one evening at his mansion, Mr. Gerard appeared dressed after the manner in which he thought a constable should appear. It was radically different from that with which we are now familiar, but the blue cloth remains the same. It is quite evident that the innovation had more to commend it than merely the personal preference of the originator, and shortly afterwards the idea, with slight modifications, was adopted, and from that day to this the city police have always rejoiced in a uniform that distinguished them from the civilian.

Illustrations by Courtesy of Valentine's Manual

Park Row in 1853. The Bridge Entrance Now Occupies this Spot

Our little diarist saw also many other changes that seem to us so far back as to be almost tradition. She used to take long walks uptown—as far as Fourteenth Street. One is reminded that week-ends in those days meant the trip from below Chambers Street to such charming rural retreats as Greenwich Village, Bloomingdale, and sometimes as far as Carmansville where dwelt at that time the great naturalist Audubon. Writers of that day, describing the home of Audubon, tell us that it "nestled in a quiet bend of the Hudson River about eleven miles from the great city." Around the lawn were many rare and beautiful birds,—stately peacocks, dignified flamingos, blue heron, golden pheasants, and many water fowl. A few deer and some dogs of rare pedigree completed the picture. The lawn sloped down to the water's edge, and across the river loomed the beetling crags of the Palisades.

Today the viaduct of Riverside Drive almost annihilates the old home of Audubon. As if to save this old landmark, the drive at this point fortunately swings a little to the east, spares the old building, and continues its northward march. From the northwest corner of the curve thus made, the New Yorker of today may look over the parapet and see below him what is left of the old home. It is in a sad state of disrepair and much untidiness marks its environment. Indeed, the stranger might pass it with hardly a glance, for there is no memorial or marking plate on the Drive at this point, to recall the fact that here once stood "Minniesland," the home of the greatest naturalist our country has so far produced—John J. Audubon. The city, however, has not been wholly unmindful of the greatness of the citizen who once lived here. It has perpetuated his fame in the name of a telephone exchange and numerous apartment houses and also in a small street. But

When the Little Girl Lived in Ninth Street, Washington Square was a Popular Parade Ground

the monument projected for Central Park has never been completed, nor have any of the other memorials planned long ago.

Our amiable little diarist also tells of a romance which would seem strangely out of place on our crowded streets today, yet if we may believe the president of the Fifth Avenue Coach Company there is as much courting going on right under our eyes as ever. And he speaks in reproach of those who would banish the spooners from the top of his bus lines. But our young friend's story is prettier. She writes:

"There is a Miss Lydia G who goes to our school and she is very beautiful and one day our minister's son was walking to school with her and I saw him give her a beautiful red rose and I guess he was making love to her for she blushed when she said good bye."

The little chronicler went frequently to Vauxhall Gardens, then on Lafayette Place extending to Third Avenue. There was a gate on Lafayette Place and another on the Bowery side. In the garden itself were merry-go-rounds in which she rode with great delight.

Then she moved to Brooklyn, but lived there only a year. Her brother liked the place because he could go crabbing on the river, but she was "afraid of the goats which chased one of her friends one day." So they came back and bought a house on Ninth Street then in quite a countrified section of the town.

Catching crabs off the shores of the East River seems a far cry from home, but at this gentle time there was splendid fishing from almost every pier on the Island above the downtown section, and even there some good catches were easily made off the Battery. The two hundred foot bridge that led to Castle Garden yielded many a full basket of perch, porgie, and sunfish.

Industrial Development

Then came an era of soot, smoke and cinders. Bituminous soft coal became a commercial possibility, and great factories sprang up on every side. Huge masses of dense, black smoke polluted the air and destroyed one of the greatest blessings hitherto enjoyed by the young city—its clean, healthful atmosphere and its brilliant sunshine. The menace increased and became a terrible reality and means were sought to restore the earlier conditions. The restriction of soft coal produced a good result, but it was not till the development of the huge Edison electric plants that this danger finally disappeared.

Although the chief manufacturing city in almost all lines, New York shows less of the dirt and smudge from chimneys than any other city in the world. That is wholly due to the fact that not only is light largely supplied by the Edison plants, but the power to drive the almost endless manufacturing machinery throughout the city is supplied from the same source. The electric motor has displaced the cumbersome furnace and the steam driven engine. The gain is not alone in mere dollars and cents to the manufacturer, but greater in the lowered and constantly lowering death rate among the six million inhabitants who live and have their houses and workshops in this great city of ours.

The Brownie in the Kitchen

WHERE is the good little brownie, the kitchen sprite who once inhabited the recesses of the old-fashioned hearth? What has happened to him who used to whisk away the crumbs at night after the children had eaten their crackers and milk while they warmed their toes near the fire before going to bed? The grown-ups may have thought that it was only the cricket who dared to venture out from his snug little crack in the chimney and chirp a confidential song to the accompaniment of the kettle that swung over the blazing logs; but the children knew that the voice they heard was that of the brownie, of whom they could never quite catch a glimpse.

Was it the desertion of the turning spit and the introduction of the stove that made the little man feel that his services were no longer required, or have we become unobserving and unimaginative? Perhaps there are some country folk, and maybe a few city dwellers, who are fortunate enough to possess fire-places and who are still aware of the elusive presence of that frisky bit of a rogue lurking just behind the andirons.

If we practical twentieth century people only knew it, there is a little brownie anxious to become a member of every household today. He would find the kitchen quite a different place from the one of old; but nevertheless he would enjoy the gleaming whiteness of the tiled *cuisine* where he and the cat might romp and play hide-and-seek among the mechanical aids to the modern housewife.

Of course we do not like to admit it, we who are almost ashamed to say that we do not believe in fairies, but every truly modern kitchen has an invisible brownie who works with breath-taking speed and surprising efficiency. We ought to recognize him but we have grown so accustomed to having things done for us that we often neglect to give credit and thanks where they are due.

There are dozens of things where merely the pressing of buttons starts unseen hands to working. By very strange and rapid processes, food is prepared, cooked, served, whisked away and all traces of it removed.

In just such a home mysterious things happen. One day the housewife prepared her dinner and placed it in her electric cooker. In one aluminum pot there was meat; and potatoes, to be baked in the meat juice, lay close to the roast. In two other pots there were vegetables. The cover was placed tightly down on the cooker and a clock, which was attached by means of an electric wire, was set for a certain hour. The

housewife left the cooker while she went out on an errand. She did not return until nearly time for dinner and when she opened the cooker, lo, and behold! everything was ready.

We marvel that a stove can, of its own accord, begin to cook a meal which it holds in its oven. We wonder how it knows enough to shut off the current at the critical time, continuing to cook the food with its stored-up heat. Our mouths water when we see the juicy meats that have roasted without shrivelling because they were allowed to retain their own moisture. We know that there is something mysterious about it all, and we, who possess imaginations, remember the brownies of our childhood days and resolve to leave, in the future, a cookie or bit of sweet where the invisible electric manikin can find it.

In this very same electrical kitchen there is a magic affair that does everything from cutting vegetables into thin slices and grinding meats, to beating eggs and cream to a soft fluffiness and mixing delicious cake batters. A sort of "Jack-of-all-trades" is this kitchen aid with whose "internal workin's" our brownie is familiar.

After the meal has been eaten there comes the duty which has always been a rather disagreeable one until Brownie Service made it otherwise. Now all one has to do is "pick up" the table, place the dishes on the racks of the electrical dish-washing machine and turn on the current. There follows a swishing and swashing of water as it is whirled over the dishes, glassware and silver, leaving them perfectly clean.

This little electric friend has saved the housewife in time, because while the dishes were being washed she was able to give her attention to something else; in energy, because she did not have to tire her back bending over a sink; in money, because the breakage of dishes has been reduced to a minus quantity; in comfort, because her hands are not roughened by dish-water; in health, because the danger of spreading germs is removed by the use of boiling water.

From the torrid heat of the range the kitchen-dwarf goes to the arctic cold of the electrical refrigerator. His pudgy little nose screws up into a knot as he investigates the depths of this self-supplying ice-box. He hears the housewife comparing notes with her neighbor on the cost and bother of ice brought to the kitchen door and that produced in her own home. He is satisfied, and feels that his services are invaluable.

Steel Deliveries

UP to the middle of January, New York had experienced no really heavy snowfall. There had been flurries that whitened the ground the week before Christmas, and another fall that gave good sledding for Santa Claus and his reindeers. But what was fine for Santa and his sleigh was decidedly the opposite for those concerned with the deliveries of more prosaic materials: that is, those who depended upon the four-legged motive power.

Light as have been the snowfalls of this winter, they, nevertheless, have been the kind that are most damaging to traffic schedules, for the thin blanket quickly packs and develops a hard, icy surface. It is more difficult for horses to keep their footing on such a surface than in the deeper snow. Yet, while horses were having so much trouble, motor vehicles of all kinds made good headway and encountered no delay other than that of the traffic jam that lined up behind a fallen horse.

Unhampered This Winter

During other winters, the Rolled Plate Metal Company has suffered in common with other users of horse drawn trucks, the delays caused by icy streets. This winter, however, there is a different story as one will learn who lingers about the warehouse at the foot of West 33rd Street. Fifteen months ago an electric truck was installed, and since that time it has handled the greater part of the firm's local deliveries.

Every morning it leaves the warehouse, and mounting the grade from the foot of West 33rd Street, mingles with the heavy traffic of Tenth Avenue. With its exceedingly heavy load of steel, I beams or iron rods, it proceeds noiselessly along until one of the crosstown streets is reached where east and west bound traffic have the right of way. The truck comes easily to a halt, even on the slipperiest pavement, or in ice and snow, for the traction is so sure and the brakes so powerful that the momentum of the heavy load is checked without difficulty. The shrill police whistle blows and the driver, releasing the brake and pulling the control lever, criss-crosses for a position of advantage while horses are still straining to start their loads.

This electric averages approximately thirty miles daily and some days it is called upon to go much farther. Its territory includes all of Manhattan and the Bronx.

The end of the day's work finds the electric back in the warehouse where garaging facilities have been provided. Here it is inspected by the driver and recharged over night for the trips to come on the following day. The superintendent before leaving, looks in for a minute at his truck. It is a matter of considerable satisfaction to him to know that he can enjoy the advantage of storing the truck in his own warehouse without causing an increase in insurance rates.

Before the purchase of the 3½ ton Atlantic truck all deliveries were made, under contract, by public truckmen. The experiment with the electric, however, has proved so satisfactory

as to warrant the purchase of additional trucks.

The Rolled Plate Metal Company was founded in 1904 and at that time dealt principally in steel and iron for export. Recently, however, a six story steel warehouse at 553 West 33rd Street was opened to carry a full line of iron and steel products for domestic use. Deliveries from this warehouse are made all through the metropolitan district, to Staten Island, and in New Jersey east of Trenton.

The purchase of the electric truck was made only after a thorough study of electric vehicles. Operating tests showed that an electric truck, compared with other methods of transporting heavy loads, would be decidedly economical. The accuracy of these tests has been shown by the actual performance of the vehicle during its fifteen months' service.

Song of the Street Light

When the Keeper of the skies
Sets the evening lamps a-light—
Stars, like brilliant, winking eyes,
Moon, a silver shallop bright—
Far down on our earth below,
Answers their's, my steady glow.

But fair Luna's fickle! She,
Many nights neglects to shine—
Stars with her in sympathy;
To illume the heavens decline—
And for light enough to see,
All the world relies on me!

Then, my proud flames brighter gleam—
Service this, I love the most—
Little Brother do we seem
To the moon and starry host;
Man-made, earth-born, yet am I
Kin to God's lamps in the sky!

Mazie V Caruthers

Photograph by The New York Edison Company

The 3½-Ton Electric Truck Used by the Rolled Plate Metal Co

Ormonde Alterations

THE largest building alteration undertaken by an individual in New York City during the past year is now nearing completion. It involves removing practically the entire interior partitions and equipment, leaving only the floors and exterior walls, of the twenty-year old, ten-story, Ormonde apartment house on the southeast corner of Broadway and 70th Street. After this has been done and the rebuilding completed, two new stories will be added to the structure. When built in the late 90's this house represented the last word in apartment house design. In its basement were installed three large electric dynamos which generated all the electric current both for light and power for the ten-story building and also for the Seminole Apartment House, a seven-story building adjoining, and for two buildings, five stories high, on 69th Street.

To Provide Hotel Accommodations

While the past two years have seen some remarkable hotel structures erected in New York City, and while each has a special distinction and individuality, none represent so unusual a project as that of the conversion of this building from an old apartment house into a modern hotel —complete in every detail. There is a very great demand for hotel accommodations in quiet residential localities and it was the realization of this condition that caused Mr. James Butler, the owner of the property, to remodel and so meet in some slight measure the ever increasing demand.

The new Hotel Ormonde will have an entrance on Broadway and another on 70th Street, both of which will lead into a large, handsome foyer. In order to enhance its beauty, a section of the second story will be removed, so that the height of the ceiling will be increased directly over the hotel office desk. In this raised section will be placed a dome of colored glass. The corner on the first story is being planned for a banking room and in the basement, directly under the bank, safe deposit vaults will be built. South of the entrance on Broadway there will be several shops and these, while facing on the street, will have communicating doors to the hotel foyer. The building when completed will contain some three hundred bed rooms and almost as many baths. It will also include all the essential and principal rooms incidental to a modern hotel, such as large dining rooms, grills, barber shops, manicure parlors and other rooms and spaces for the convenience of the guests. In the foyer, a news stand, a cigar counter and public telephone booths will be located; and a grand staircase will also be featured. Four high speed elevators will be installed in the building, the cars of which will be handsomely designed in bronze.

The improvements on the exterior of the building and the two new stories, will carry out the Italian Renaissance style of architecture of the present structure, except that the two new stories will be entirely faced with tinted and ornamented terra cotta. The interior of the principal rooms will be designed in the Floren-

Wm. H. Gompert, Architect

The Hotel Ormonde as it Will Appear on the Completion of the Rebuilding Operation

tine style and the walls of the hotel foyer, dining room and banking room and safe deposit room will be of Caen stone treatment and enriched with Florentine ornamentation in low relief.

The electrical equipment of the building will be entirely new and complete in its last detail. The three old generators will be removed and all electrical current will be supplied direct from the mains of The New York Edison Company. Alterations have already been made in the basement of the Seminole Apartments for the installation of Edison Service for other buildings of the group.

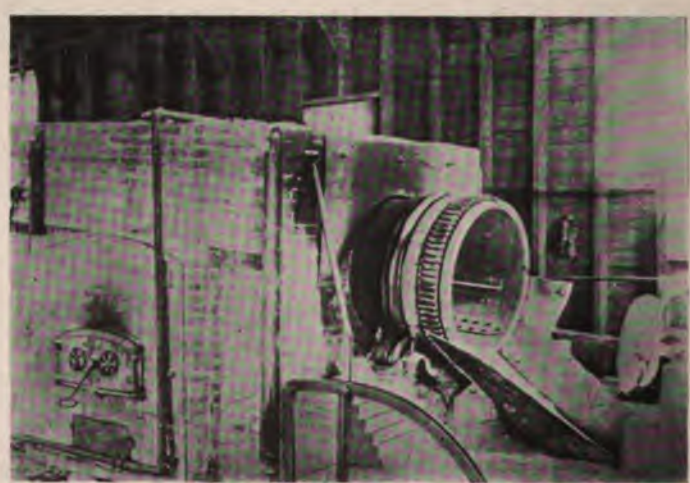
Nature's Paradox

THINK of a dense heavy rock composed of silky fibres and a floss-like thistle down; each fibre so light it floats on water and so strong and wonderfully constructed that for millions of years it has withstood the chaotic changing of the earth and its terrible crush and grind, without the destruction of a slender thread nor the marring of the silky silver sheen. This is asbestos, nature's paradox.

As has been told in a previous chapter, the great expense and amount of labor necessary to refine asbestos and make it fit for man's use, greatly impeded for many years the economic and commercial development of this extraordinary mineral.

In 1889 experiments were started to perfect a wholly mechanical means for the production of asbestos. These experiments finally developed a 50 horsepower engine, a crusher, travelling picking tables, revolving screens, elevators, shakers, and two large blowers. The rock was first put through the crushers, and then deposited on an inclined shaking frame that separated the loose fibre. This fibre went directly to a cleaning and grading machine and the remaining asbestos rock was dropped to revolving picking tables, where the ingrained fibre was separated by hand. The asbestos was finally dried and sent through a fine roll crusher. Cleaning and grading were done on a set of inclined sieves in rapid shaking motion in connection with blowers. However, the outcome was not altogether successful. The fibre still contained considerable dust and rock particles that would have to be removed before the material could be used with any degree of satisfaction for commercial purposes.

Final improvements were made in the spring of 1893. The process developed at this juncture, and the one in its essentials in use at present, was as follows: The rock was first dried either by exposure to air or in rotary driers, consisting of long cylinders of boiler plate resting at their turning ends on friction rollers. Drying was brought about by the stirring of the material by longitudinal blades



An Electric Rotary Dryer. The Rock is Dried Before Crushing

View of an Asbestos Quarry in Quebec, Showing How the Rock is Brought Up to the Surface

that allowed it to fall through a current of hot air. Either rotary or air breakers were employed for demolishing the dried rock. Machines for secondary crushing separated the fibre from the waste, preparatory to a further separation by exhaust fans.

The great advance meanwhile made by hydro-electric science and the great expense of growing scarcity of fuel brought about in 1904 the erection of a power station on the rapids of the St Francis River. Mining engineers, at first conservative, were soon convinced of the utility of the scheme, and shortly a second development occurred on the Shawinigan River. The cost of the new power supply was found to be less than that of steam, and certain advantages in actual operation were readily manifest. Prominent among these was the simple and wasteless transmission of the new energy in comparison with the great inevitable loss in conducting steam over long distances. Owing to its flexibility, electrical supply lent itself at once to the many and varied motor wants of the process. The apparatus needed was less bulky and less expensive than that required by the former system. Lastly, the efficiency of electrical machines was found to be surprisingly high. Due to the ease with which electric current is measured, it has become possible to learn the amount of power required by each machine, and under different conditions of operation.

The process for breaking up the asbestos fibre into threads may be likened to the beating of flax and hemp. After the fibre has been well cleaned, it presents a light, silky appearance and is ready for its many manufacturing processes.

With the aid of giant electrical machinery the fibre may be transformed into felt, or, mixed with other materials, pressed into fire-proof paper. Reinforced with wire it may be pressed back into rock hardness for the brake

blocks of some great lift or dredge. Spun, the fibre may be made into thread so fine, that a hundred yards weigh but an ounce. When woven, a linen-like-cloth may be the result or a heavy fabric as thick as your finger. It is made into shingles, roofings, cements, tapes, clothes, yarns—hundreds of products that enter every avenue of science and the useful arts.

At every turn, in the homes or the work shops of the nation, we find asbestos converted into the useful form. For millions of years it lay hidden. Now in this 20th century it has become one of man's most invaluable servants.

Industrial Heating

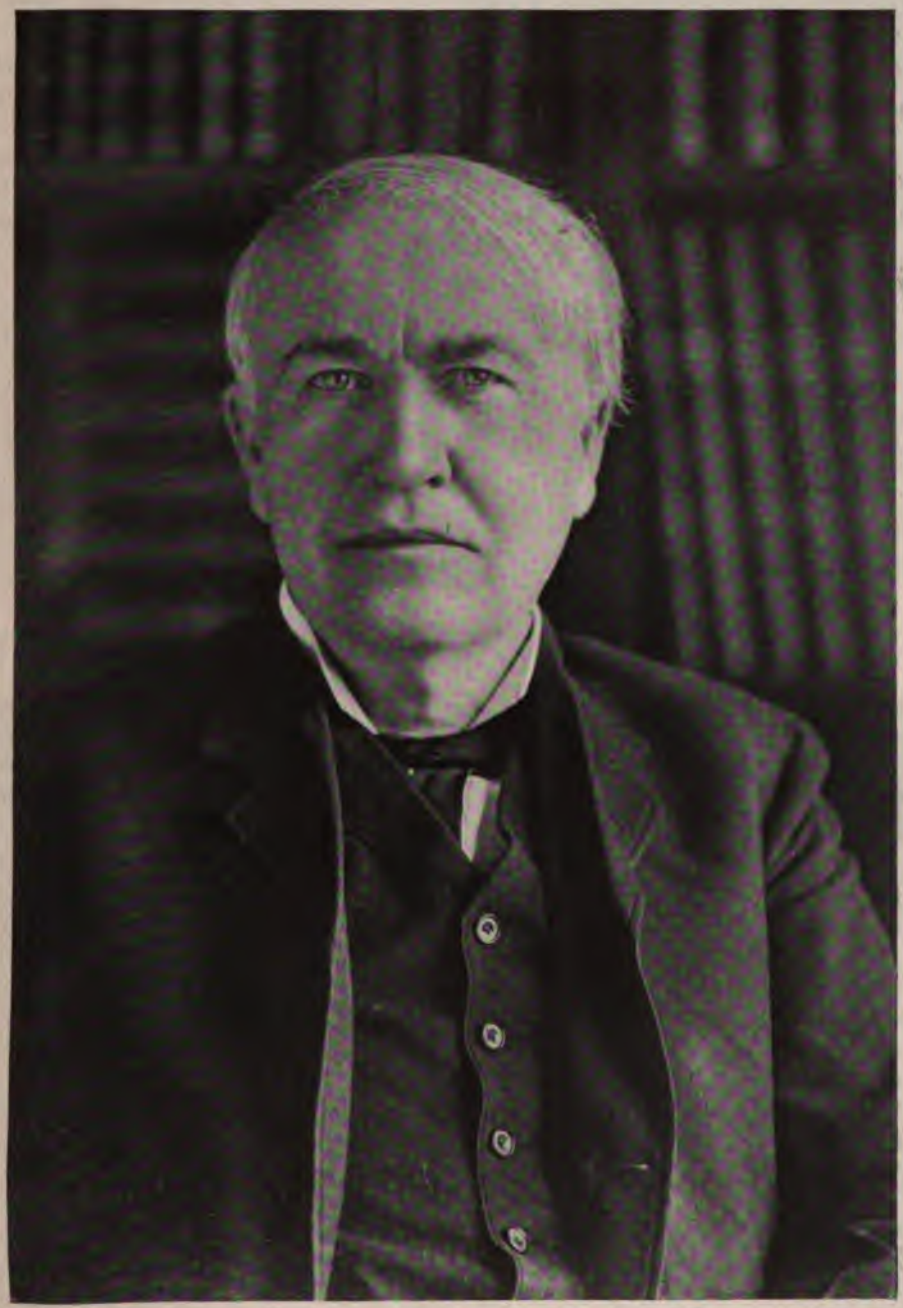
According to an article in a recent number of the *Saturday Evening Post*, the future for that branch of the electrical industry which deals with heating is a very great one. Floyd W Parsons, the author of the article, expresses his very firm belief that the present trend of engineering achievement points to the coming wide use of electric heat in our everyday life. In support of this he says, "We have all heard of the wonderful electric plants located at Niagara Falls to utilize the mighty force there furnished us by Nature. It will perhaps be news to many to learn that ninety per cent of the energy generated in the power plants of Niagara is consumed for industrial heating purposes. At the present rate of growth the half million kilowatts now used to generate heat in this country will soon be increased to several million kilowatts."

The greatest advances in the art of electric heating seem to have been made in the automobile industry where it was found that the use of the electrically heated oven for baking car bodies, cost less than the use of other heating methods. In this single industry one hundred thousand kilowatts are at work drying the enamel on more than three thousand motor cars each day.

Electric heat may also be used to great advantage in the drying of food products. Tons of food were sent to our soldiers in France, and it was found that great savings were effected when certain foods were first dried. "The drying of vegetables, fruits, and so on, leads to large economies in transportation costs. In every ton of fresh vegetables that is shipped the owner pays freight on approximately eighteen hundred pounds of water. It is evident therefore that if these food stuffs were dried we could ship the equivalent of fresh vegetables instead of the eighteen hundred pounds of water contained in every ton."

The introduction of electric heating into our industrial life is almost certain to result in its increased use in our home life. The cost of coal and oil will doubtlessly go higher as the years pass, while the cost of electricity will steadily decrease as it has during the past thirty years. The electrical method reduces the fire hazard, and by lowering the insurance rates saves many dollars for the owner.

Mr. Parsons closes his article as follows, "The more uses we can find for electric current the bigger we can build our central stations. The whole idea appears to be a long step in the right direction."



Thomas A. Edison, Seventy-three Years Old on February 11, Was the Guest of the Edison Pioneers at a Luncheon Arranged to Celebrate That Eventful Day

The Fox Electrical Corporation, occupies the second-floor-front at 119 West 42nd street, overlooking one of the busiest thoroughfares in New York City. Practically every type of electric appliance on the market is demonstrated at the Fox show-room.

Accessible to commuters, "The Electric Shop," situated in the concourse of the Grand Central Terminal, smiles out a welcome to hundreds who pass to and from trains. In spite of its bandbox appearance, it was able to fill large orders for electrical supplies during the Christmas rush. It is all that its name implies, "Electric", giving quick and efficient service.

Manufacturers and Agents (Continued from Page 36)

Motors

Inspection—Maintenance—Repairs (Cont'd)

Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—48 East 8th St
Cutter F B Co—50 Church St
Eisenberg General Con Co—149 Grand St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Electrical Repair Co Inc—240-242 West 25th St
Florandin & Co Chas H—110 West 40th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St

Signs Electric

Bofinger Bros—146 East 42d St
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L (Flexlume Sign Co)—560 Seventh Ave
Universal Elec Stage Lighting Co (Kliegl Bros)—240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 ChurchSt
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1123 Broadway

Specialties

Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers)—1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes)—114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Household Service—21 E 40th St
Duntley Products Sales Co—295 Fifth Ave
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St

Manufacturers and Agents (Concluded)

Vacuum Cleaners (Concluded)

Frantz Premier Distrib Co Inc—2010 Broadway
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St.
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers) —11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—42 East 23rd St.
Lightolier Co—569 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co (Geyser) —35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)— 119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Killoch David Co—57 Murray St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Nugent Electrical Supply Co—7 W 29th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 196—M Zuckman
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Grand St 149—Eisenberg General Con Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Varick St 203—Riccio Electrical Contractors
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 400—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 92—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1170—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 8th St 48—American Pressing Iron Co
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker Electric Co
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co
Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co

Wiring and Installation Contractors (Concluded)

Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Madison Ave 407—Manhattan Elec Cont Co
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 731—Metropolitan Electric Co
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 81st St 229—Edward Zenker
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
Park Ave 1630—Wimpie Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 152nd St—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 11½— S W Mills
East Fordham Road 273—Endi
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

following list is arranged according to location in relation to the district of The New York Edison Company. See map on inside back cover.

Broadway District

55—John Hammill
St 55—A Edgar Goetz Inc
St 109—Spilger Electric Co
St 25—Jos Torre
St 24—Samuel Lakow
St 42—Hanover Electric Co
an St 96—Naumer Electric Co
r St 13—Schwartz & Blumengarten
r St 122—A Epstein
St 39—Beaver Electric Co
St 68—Broad Equip Co of N Y
St 122—Stewart-Dickson & Co Inc
ray 1—William Vautin
ray 195—Western Electric Co Inc
ray 253—Porter Electric Co
ray 302—Harry Weinstock
ray 335—Monowatt Elec Import Co
ray 371—Rabinowitz & Klüger
ray 383—A Edelman
ray 405—Campbell Lamp Co Inc
ray 433—Ideal Gas & Electric Fix Co
ray 434—Crown Elec Illg Co
ray 435—Radiant Electric Lmp Co
ray 489—Sunlight Electric Co
ray 525—Edison Fixture Co
ray 569—Lightolier Co
ray 652—New Era Appliance Corp
e St 431—Columbia Elec Illg Corp
St 199—Joseph Addison
St 243—Van Ben Thuysen Robt Co Inc
St 261—Stransky Mfg Co
St 262—Maxim Elec Corp
St 266—R A Brown Electric Co
St 313—Oneida Electric Co
St 392—Welsbach Gas Lamp Co
St 417—The Maintenance Co
St 481—W E Tranter
ne St 7—Phoenix Hardware Co
St 16—Wm Truswell & Son
St 196—Max Zuckman
St 231—Worth Electric Co
ers St 101—Broadway Hardware Co
ers St 105—Holloway-Bentz & Co
ers St 105—H A Polhemus
ers St 130—Acker Merrall & Condit Co
ers St 150—Curtis & Carhart Inc
am Square 2—Louis Abrahams
a St 30—Wm Braun
a St 30—H P Copeland
a St 30—P A McGuire
a St 50—F W Collins
a St 50—Standard Drug Co
h & Vesey Sts—Metropolitan Hardware Co
and Pl 25—Globe Electric Co
r Square 10—Philip Addison
ndt St 26—Cleveland & Ryan
ndt St 39—Blackall & Baldwin
ndt St 39—W S Broadhurst
ndt St 39—R G Cory
ndt St 42—Terminal Cycle & Sporting ds Company
ndt St 70—Cortlandt Bicycle & Electrical ply
Cortlandt St 70—W R Pabst
Cortlandt St 84—Bleyle Electric Co
Cortlandt St 86—A E Gelling
Dey St 48—John J Leahy
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 52—Flitner Atwood Co
Front St 62—William E Williams
Front St 124—Charles Davidson
Front St 162—W S Pendleton Jr & Co
Front St 194—E George & Co
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—David Perlman
Fulton St 110—Marlen Hdwe Co
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Fulton St 248—Williams & Wells Co
Gold St 13—Anderson & McKenzie
Gold St 46—Van Axen Elec Co
Grand St 162—Adam Kalb
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 211—Interborough Lighting FixtureCo
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 185—Weyant Electrical Supply Co
Greenwich St 255—G M Ross
Greenwich St 293—King Electric Const Co
Greenwich St 460—A F Beckman & Co
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 84—Alfred Whiteley Inc
John St 99—T Frederick Jackson Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 95—John W Hooley
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Chas W Osburg Co
Liberty St 120—Welborne & Co Inc
Liberty St 123—Smith-Meeker Eng Co
Liberty St 126—Thomas & Johnson
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 91—Weber & Jones
Mott St 44—Quong King Long Co
Murray St 23—Stanley & Patterson
Murray St 37—Fensterer & Ruhe
Murray St 43—Conlan Electric Co
Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 140—Reid-Yeomans & Cubit Inc

Authorized Mazda Lamp Agents (Continued)

Nassau St 145—N Y Supply & Inspection Co
Nassau St 154—Minato Honga Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 15—United Adjustment Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 35—Henry A Kissel & Co
Pearl St 39—Commercial Construction Co
Pearl St 116—Kelting Electric Co
Pearl St 550—E B Latham & Co
Prince St 44—Louis Iorio
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 81—H & F Metzinger
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Sullivan St 29—Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Varick St 203—Riccio Electrical Contractors
Vesey St 59—L Gabler & Son
Vestry St 35—Northwestern Electric Equip Co
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 97—Wm E Glaeser
Warren & Church Sts—Perlman Auto & Cycle Supply Co
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
West Broadway 176—O M Matzen
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 491—Acme Machine & Motor Co
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West Houston St 20—Stein Manufacturing Co
West St 90—Peters & Peters Inc
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
White St 39—Wm Rouguett
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
Wooster St 33—Paul Silverstone
Wooster St 176—Jos Kerne

East Side District

Avenue D 2—The New Interboro Electric Co
Avenue D 53—Barnett Rosenberg
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Fix Co
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 283—Dulberger Sup Co
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—Pioneer Lighting Fixture Co
Broome St 327—N Y Gas Light Co
Clinton St 91—A Z Electrical Supply Co
Delancey St 84—Frank Silverman
Delancey St 102—Rubin Bros
Delancey St 188—Louis Boritz
Division St 87—Soffen Brothers
Division St 133—Lincoln Cont Co
East Broadway 88—Minkowitz & Cohen
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 93—I Berkowitz
East Houston St 170—D Stein
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 36—Max Leaf
East 4th St 69—Eastern Electric Works
East 4th St 75—Charles Lipschultz
East 4th St 128—Isadore Schajowicz
Essex St 62—Public Elec Supply House
Essex St 172—W Katz
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 142—J Zucker
Forsyth St 182—Ben Goldberg
Henry St 121—James Drucker
Ludlow St 69—Chas I Silberman
Ludlow St 144—Louis Yuster
Monroe St 11—Anglo Amer Elec Co
New Chambers St 4—Louis Purcaro
New Chambers St 22—Clover Electric Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Pike St 30—Freeman Bros
Rivington St 11—Tito Electric Co
Rivington St 265—M Franzblau
Second Ave 73—J Brown

Irving Place District

Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1133—Electrical Consumers Adjustment Corporation
Broadway 1155—Empire Electric Co
Broadway 1161—Antler Elec Co
Broadway 1168—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 9th St 43—Superior Elec Co
East 10th St 30—Spero & Cohen

Authorized Mazda Lamp Agents (Continued)

East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 13th St 34—A L Todd
East 14th St 7—William Landau
East 14th St 10—Acme Electric Co
East 14th St 10—Automatic Awning Control Device Corp
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 17th St 3—Fruhling Art Light Co
East 17th St 18—Metropolitan Elec Lamp Co
East 22d St 18—Consumers Elec Lamp & App Co
East 22d St 27—Charles Elec Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 28—A Marchard
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—William Fredericks
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 334—Wm Purdy
Fifth Av 63—Edison Lamp Service Co Inc
Fifth Ave 75—H M Walter
Fifth Ave and 26th St—Park & Tilford
First Ave 312—A Koppeman
Fourth Ave 108—I Gluck
Fourth Ave 110—B H Turecan & Co
Fourth Ave 121—Borough Elec Co
Fourth Ave 125—A Wangerin
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 130—Goldberg & Rubenstein
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Seventh Ave 182—Finkelstein Bros
Seventh Ave 189—E Christensen
Seventh Ave 219—Subway Hardware Co
Seventh Ave 227—The Little Electric Co
Seventh Ave 243—Keppler Bros
Seventh Ave 296—B Adler
Sixth Ave 164—McGeady Electric Co
Sixth Ave 182—Geo H Bingler
Sixth Ave 183—M A Karp
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 431—Siegel & Rittner
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—Acorn Electric Cont Co
Tenth Ave 239—I P Frink Inc
Tenth Ave 246—Robert F Hitchman
Third Ave 182—Metz-Solars & Co
Third Ave 184—Henry Green
Third Ave 238—G & P Elec Supply House
Third Ave 384—D B Pershall & Son
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 54—Radice Electric Co
West 13th St 107—Dale Ltg Fix Co
West 13th St 408—Bullock Mfg Co
West 14th St 41-3—Sam Frost
West 14th St 112—Raphael, Morris & Co Inc
West 14th St 131—Harry J Mabs
West 14th St 132—Acme Lighting Fixture Co
West 14th St 232—Wm H Crary
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 15th St 22—Simes Co
West 16th St 4—Central Elec Supply Co
West 16th St 111—E Korkes
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 21—Rambam & Rosenberg
West 17th St 44—Rambeau & Sheflin
West 17th St 48—Beidner Elec Co
West 17th St 102—Perlman Elec Co
West 17th St 105—Manhattan Elec Ltg Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 227—Lighting Eng Service Co
West 19th St 8—Biglin & Moffatt Lamp Co
West 19th St 25—Horowitz & Leff
West 19th St 40—Lewis Harbitter
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 27—Import Sales Co
West 20th St 120—Reliable Sewing Machine & Electric Co
West 21st St 9—Ferber Electric Co
West 21st St 66—D C Electric Co
West 21st St 117—Morris Gika
West 21st St 162—Chelsea Elec Motor Rep Co
West 23rd St 147—Bruck & Heller
West 23rd St 235—Eastman Kodak Co.
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Goodman Jablon
West 24th St 105—Samuel Vogel
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Authorized Mazda Lamp Agents (Continued)

Forty-second Street District

Broadway 1215—B W Glick
Broadway 1358—Siems & Co
Broadway 1368—Arrow Electric Shop Inc
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1409—A & A Electric Co
Broadway 1416—H R Lockwood Co
Broadway 1416—Elec Service Eng Co
Broadway 1476 Suite 1013—American Electric Construction Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
Broadway 1743—Times Square Auto Sup Co
East 29th St 34—Albin Gustafson Co
East 29th St 41—S H Kline
East 30th St 2—Simpson Electric Co
East 30th St 8—Electric Magnet Co
East 32nd St 19—R E Leve
East 38th St 151—Sussman & Sussman
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 41st St 104—J Livingston & Co
East 42nd St 18—Herbert & Huesgen Co
East 42nd St 146—Bofinger Bros
East 42nd St 236—H F Electric Co
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 17—Black & Boyd Mfg Co
East 48th St 201—Tiedelmann & Bohrer
East 52nd St 19—White Allom & Co
East 57th 206—Paul F Weinbeer
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
East 59th St 241—S A Ecker
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 347—B & B Sign Co
Fifth Ave 417—Underwood & Underwood Inc
Fifth Ave 503—A W Haire
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
First Ave 867—Al Beuler
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Building—Concourse Electric Shop
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave 331—Herz Pharmacy Co
Lexington Ave 581—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Lexington Ave 769—Colonial Gvt & Elec Cont Co
Madison Ave 236—Walsh Electric Supply Co
Madison Ave 361—Tiffany Studios
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 619—Frankle Alffias
Madison Ave 631—Kellog & Bertine
Ninth Ave 604—Geo Unsold
Ninth Ave 610—Pisch Elec Sign Co
Ninth Ave 630—Nathan Marks
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1111—New Bank Elec Supply Co Inc
Second Ave 1100—Arnold Stahl
Seventh Ave 358—Bazaar Franko American
Seventh Ave 468—Bank Elec Co
Seventh Ave 515—Van Beuren & N Y Bill Posting Company
Seventh Ave 560—L L Strauss
Seventh Ave 729—Howell's Cine Equipment Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 636—Fred B Zender
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 947—JohnW Flint
Sixth Ave 1009—John T Whitehead
Sixth Ave 1093—Mt Morris Auto Sup Sta
Tenth Ave 486—Geo E Valley & Bro
Tenth Ave 672—J G Gloecker
Tenth Ave 755—H F Lutters
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 444—Fred Hardy
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowskv
Third Ave 497—Manhattan Hdwe & Tool Corp
Third Ave 518—Davis Bros
Third Ave 563—I Bergstein
Third Ave 605—"B" Electric Hdwe Co
Third Ave 631—Chelsea Electric Co
Third Ave 647—Julius Gabler
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co

Authorized Mazda Lamp Agents (Continued)

Third Ave 918—Sidney Frey
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 128—Joseph Gershon
West 30th St 151—Alpha Electric Co Inc
West 30th St—Jaffer Electric Co
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Company
West 31st St 28—West Side Electric & Tinsmithing Co
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 32nd St 110—C. G. Willoughby
West 32nd St 114—Welland & Bruland
West 32nd St 130—W F Irish Co
West 33rd St 221—E J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 419—Gordon & Koppelson
West 36th St 126—Metropolitan Elec Sup Co
West 37st St 55—Eagle Electric Co
West 37th St 58—Roesser Studios Inc
West 38th St 47—Samuel Jawitz
West 38th St 66—Herald Lamp Service
West 40th St 64—J Bank
West 40th St 105—Publicity Clock Co
West 40th St 143—Smith Elec Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 103—Teale Supply Co
West 41st St 232—Paramount Elec Const Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 442—Sharlow Bros Co
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 48th St 304—Joseph Beck
West 47th St 310—H J McKinnon
West 48th St 168—Progressive Poster Exchange
West 48th St 244—M Schweiger & Co Inc
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52d St 136—Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 149—L Segalbaum
East 81st St 444—B Lovinger
East 84th St 158—Gabriel Erdos
East 86th St 148—Rose Electric Co
East 86th St 341—L S Metzger
East 95th St 156—Edward Zenker
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1461—Fuld & Fuld
First Ave 1576—Joseph Corak
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1182—Dowell Elec Co
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Contr Co
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1828—Zoltan Hartmann Elec Co
Second Ave 1838—P Stein
Third Ave 1011—J M Kohlmeir
Third Ave 1055—F Gretzer's Sons
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Jas Gear

Authorized Mazda Lamp Agents (Continued)

Third Ave 1286—F & B Electrical Co
Third Ave 1298—J Rappaport
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 501—M Eberhart & Son Co
Third Ave 1545—N W Altman Co.
Third Ave 1636—Benjamin Phillips
Third Ave 1658—Electrical Maintenance Co
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 97—Max Weiss
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 326—I H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—B Murphy
Amsterdam Ave 941—Julius C Belmonte
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Markle Hardware Co
Amsterdam Ave 989—Marcus & Klein
Amsterdam Ave 1084—Samuel Garnter
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1641—Gold Rose Hardware Co
Amsterdam Ave 1814—Louis Flato
Amsterdam Ave 2232—Samuel Greenberg
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1834—Trop Specialties Co
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1987—King Tire Co
Broadway 2104—Modern Ltg Co
Broadway 2142—C B Montagriff
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2299—M J Kane Inc
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 12th St—Park & Tilford
Broadway 24 5—E G Zelner
Broadway 247 ½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3181—Dorb Drug Co
Broadway 3906—M Lewis Inc
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 26—Magneto Elec Generator Co
Columbus Ave 144—E May Inc
Columbus Ave 171—N Vincenzi
Columbus Ave 189—Budnick Bros
Columbus Ave 96—Columbus Elec Co
Columbus Ave and d St—Park & Tilford
Columbus Ave 220—T F Carr
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—Alexander C Paterson & Son
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Sup Store
East 112th St 73—Behl Electric Co
East 113th St 21—Modern Elec Cont Co
East 115th St 58—M S Rosenfeld Bros
East 116th St 204—Empire Gas & Elec Fix Co
East 125th St 163—F J Rush
Eighth Ave 2073—Phil Epstein
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2371—West End Bee Hive
Eighth Ave 2441—A E Jackson
Fifth Ave 1410—S J Eisner
Hancock Place 3—Progressive Electric Co
Lenox Ave 22—Morris Perla
Lenox Ave 5 —Louis Saphier
Lenox Ave and 126th St—Park & Tilford
Lenox Ave 346—Herman Young
Lenox Ave 394—S. Lichtenstein
Lenox Ave 403—Lenox Elec Co
Lenox Ave 468—Frank & Meyers
Lenox Ave 603—Herman Pinkiert
Lexington Ave 1855—Shane Electric Co

Authorized Mazda Lamp Agents (Continued)

Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1889—Gristede Bros Inc
Second Ave 2236—A Freeman
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 1121—Arrow Elec Shop Inc
St Nicholas Ave 1422—Manhattan Lamp Service Co
St Nicholas Ave 1368—Le Mar Supply Co
St Nicholas Ave 1511—I Selly
St Nicholas Ave 1599—Elec Appliance Shop
St Nicholas Ave 1617—Henry Green
Third Ave 2098—Iron Spec Co
Third Ave 2352—Chas Mann & Co
West End Ave 165—F W Astarita
West 61st St 16—Asch & Co Inc
West 66th St 161—Leo Strus
West 70th St 104—Samuel Moses
West 70th St 236—S A Friedman
West 72nd St 172—John B Campbell
West 72nd St 176—Kaufman & Burkert
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 118th St 430—Morningside Elec Supply Co
West 125th St 125—I Davega, Jr
West 125th St 125—L Davega Inc
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—E A Briggs
West 125th St 215—M J Heller Elec Co
West 126th St 301—C O Alberga & Co
West 127th St 602—James Cunneen
West 135th St 107—C M Moten

Bronx (Melrose District)

Boston Road 1168—N Goldman
Boston Road 1304—Mayo Lighting Fixture Co
Brook Ave 172—S Dworkin
Brook Ave 520—M Goldman
Burnside Ave 4—F B Electric Co
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 142nd St 781—Wilson Maeulen Co
East 149th St 358—Weber Supply Co
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 448—A Dessner
East 152d St 726—Joseph B Josephson
East 152nd St 739—Gustav Abramowitz
East 152nd St 835—J Lowe
East 153rd St 404—Joseph Mancusi
East 160th St 770—Jacob Garten
East 161st St 615—J F Smith
East 163rd St 736—Sayles Electric Co Inc
East 163rd St 965—Isidor Schohan
East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—M Finklestein
East 167th St 460—M Schwarzler
East 169th St 535—B Weiss Electric Co
East 169th St 638—Max Berminer
East 169th St 936—Mathew Sussman
East 177th St 1753—C H Wallace
Forest Ave 947—Ed Gorodess
Freeman St 860—Sidney Cannold
Freeman St 879—L Drescher
Hunts Point Ave 895—Max Maged
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Intervale Ave 1008—B G Roeber
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 950—Louis Gladstein
Longwood Ave 972—Adolph Greenblat
Melrose Ave 558—Hub Elec Supply Co
Melrose Ave 776—Ed O Steinoch
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mahler Electric Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1308—Louis I Waldman
So Boulevard 1319—Jacob Katz
So Boulevard 1327—A Dressner
St Ann's Ave 342—S Wishnevsky
Stebbins Ave 1142—Walshin Bros
Teller Ave 899—George Venney
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2718—A L Biltchick
Third Ave 2744—S Spiero
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Gurland
Third Ave 3151—We Lektrify U Corp
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3808—Adolph Siegel
Union Ave 673—R J Atherly
Union Ave 767—Henry Cohen
Washington Ave 937-1037—M Regelson
Washington Ave 1226—Leopold Altman
Washington Ave 1631—Yorkville Elec Fix Co
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 796—Kessler & Steinman
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Elec Shop Inc
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Westchester Square 134—D S Robinson
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias
Willis Ave 478—M P Weintraub

Bronx (Tremont District)

Audubon Ave 335—Wm Ward
Boston Road 1360—Joseph Leckart
Boston Road 2017—H Von Hadeln
Claremont Pkway 505—Claremont Elec Co
Clinton Ave 2117—Wm H Blank
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co

Authorized Mazda Lamp Agents (Concluded)

East Fordham Road 338—H & M Bloom
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 575—Nonpareil Gas & Elec Co
East Tremont Ave 755—Becker Bros
Tremont Ave 855—Boris J Medove
East 180th St 350—Philip Klein
East 180th St 554—A Feig
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 183rd St 68—Ace Electrical Co
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East 233rd St 343—Joseph Reda
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2376—W W Electrical Co
Jerome Ave 2423—J Wollak
Kelly St 1015—G & M Electric Co
Morris Park Ave 685—M W Smith
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
Park Ave 4206—Hugh J Casey
So Boulevard 1881—Louis Flatau
So Boulevard 1941—Abraham Herman
Thieriot Ave 1269—Thieriot Radio & Elec Co
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4197—Adolf Birnbaum
Third Ave 4239—Northern Gas & Elec Fix Co
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2601—Eli Ancowitz
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2775—Rudd Bros
Webster Ave 2787—Fordham Elec Supply Co
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 181st St 553—George Hunter
West 231st St 165—Louis Grossman

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway Office—424 Broadway
East Side Office—124 Essex St
Irving Place Office—10 Irving Place
Forty-second Street Office—124 West 42d St
Eighty-sixth Street Office—151 East 86th St
One Hundred and Twenty-fifth Street Office—15 East 125th St
Bronx (Melrose Office)—362 East 149th St
Bronx (Tremont Office)—Tremont and Monterey Aves

Material-Handling Machinery

Cranes, Hoists and Winches

Alfred Box & Co Inc—Woolworth Building
Alliance Machine Co—Alliance Ohio (No New York Office)
American Hoist & Derrick Co—50 Church St
Brown Hoisting Machinery Co—50 Church St
Chesapeake Iron Works—30 West Broadway
Cleveland Crane & Engineering Co—50 Church St
Clyde Iron Works—50 Church St
Edgar A Brosius—Pittsburgh Pa (No New York Office)
Edward F Terry Mfg Co—Grand Central Terminal
Heyl & Patterson Inc—90 West St
Industrial Works—50 Church St
Lidgerwood Mfg Co—96 Liberty St
Link Belt Co—299 Broadway
Manning, Maxwell & Moore Inc—119 W 40th St
Mead Morrison Mfg Co—149 Broadway
New Jersey Foundry & Machine Co—90 West St
Northern Engineering Works—120 Broadway
Shepard Electric Crane & Hoist Co—30 Church St
The Champion Engineering Co—149 Broadway
The Maine Electric Co—26 Cortlandt St
Victor R Browning & Co—480 Lexington Ave

Gravity and Power Conveyors

Brown Portable Conveying Machinery Co—30 Church St
International Conveyor Co—50 East 42nd St
Mathews Gravity Carrier Co—50 Church St
Robins Conveying Belt Co—13 Park Row
Rownson, Drew & Clydesdale Inc—68 William St
Sprague Electric Works—527 West 34th St
The Alvey Ferguson Co—110 West 40th St
The Lamson Co—15 West 44th St
The Standard Conveyor Co—227 Fulton St
The Jeffrey Mfg Co—50 Dey St
Alvey Manufacturing Co—105 West 40th St

Elevators

Otis Elevator Co—11th Ave & 26th St
Watson Elevator Co—407 W 36th St

Industrial Trucks

Elwell Parker Electric Co—50 Church St
Karry Lode Industrial Truck Co—100 Nott Ave L I City N Y
Lakewood Engineering Co—111 Broadway
Warren & Irrgang—Springfield Mass (No New York Office)
Hyatt Roller Bearing Co—1 Madison Ave

Bulk Handling Machinery

The McMyler Interstate Co—50 Church St
Michener Stowage Co—17 Battery Place
The Wellman-Seaver-Morgan Co—50 Church St

Miscellaneous Equipment

Blaw Knox Co—165 Broadway
Electric Controller & Mfg Co—50 Church St
The Hayward Co—50 Church St
Revolvator Co—Jersey City N J (No New York Office)

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

C—Commercial I—Industrial P—Passenger

Anderson Electric Car Co of N Y (Detroit Electric)—Central Park West at 62d St (C & P)
Atlantic Elec Vehicle Company—30 Church St Suite 422 (C)
Automatic Transportation Co—258 B'way (I)
Baker R & L New York Corporation The—Central Park West at 62d St (P)
Buda Co of Chicago—30 Church St (I)
Comm'l Truck Co of America—405 Lexington Ave (C)
Couple Gear Co—(Clarence L Smith Co Agents) —544 W 30th St (C)
Cowan Truck Co—51 East 42d Street (I)
Electro Coach Corp—50 Church St (Busses)
Elwell-Parker Electric Co (Lucian C & G W Brown Agts)—50 Church St (I)
General Vehicle (Walker Vehicle Co.) — Grand Central Terminal Room 3709 (C)
Healey & Co—1662 Broadway (P)
Hoagland-Thayer Inc—300 Washington Street Newark N J (I)
Hunt Co C W Inc—501 Fifth Ave (I)
Koppel Industrial Car & Equipment Co—30 Church St (I)
Lakewood Engineering Co—111 Broadway (I)
Lansden Co Inc The—50 Church St (C)
Lansing Co—492 Broome St (I)
Mercury Mfg Co—(Truck & Tractor Co Agents) 25 Church St
Milburn Light Electric Co H J McLeer, Factory Representative—725 Ocean Parkway B'klyn
Walker Vehicle Co—Grand Central Terminal Room 3709 (C) (General Vehicle)
Ward Motor Vehicle Co—5736 Grand Central Terminal Bldg also Mt Vernon N Y (C)

Charging Apparatus

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Northwestern Electric Co The—1457 B'way
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Charging Apparatus for Ignition, Starting and Lighting Batteries

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St,
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Lincoln Electric Co—149 Broadway
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Electric Co—110 West 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Electric & Manufacturing Co—165 Broadway
Witherbee Storage Battery Co.—643-9 West 43rd St.

Electric Garages

Acker Merrall & Condit Co—536 W 46th St (C)
Edison Storage Battery Co—247 W 35th St (C)
Exide Battery Depots Inc
East Side Garage—141 E 25th St (C)
North Side Garage—West End Ave & 64th St (C)
West Side Garage—527 W 23d St (C)
International Motor Co—252 W 64 St (C)
Electric Garage The—Central Park West & 62d St (P)
474 West 130th Street Garage Inc The—474 W 130th St (C)
Willett's Garage—15 E 58th St (P)
Wright's Garage Inc—18 Audubon Place (P)

Manufacturers and Agents (Continued)

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St

Buffers—Polishers

Barker John H—95 Liberty St
Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadwav
Western Electric Co—151 Fifth Ave and 105 W 40th St

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electric Corporation (Rapid Dish Washer) —119 W 42d St
Livingston, J & Co—104 E 41st St
Phillipson Emil—110 W 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—13 E 23rd St
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly P
Edmonds Walter S—134 Congress St Bostor Mass
General Acoustic Co—Acousticon for the Dea 220 W 42d St
Guarantee Electric Products Company—11 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf) —303-305 Fifth Avenue
Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Morison Electric Supply Co—15 E 40th St
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
Electrical Repair Co Inc—240-242 West 25th St
Elevator Supplies Co Inc—1515 Willow Ave Hoboken N J
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)

Manufacturers and Agents (Continued)

Elevators—Dumbwaiters (Concluded)

Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevato Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bohn C C Electric Co—820 Sixth Ave
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Cincinnati Specialty Mfg Co—39-41 Cortlandt St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Frost Samuel—41-43 W 14th St
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morison Electric Supply Co—15 E 40th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Penn A C—Singer Building
Phenix Lighting Fixture Co—144 Bowery
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Roeser Studios Inc—58 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way
Western Electric Co—151 Fifth Ave and 105 W 40th St

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St

Manufacturers and Agents (Continued)

Globes—Reflectors (Concluded)

Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY
Western Electric Co—151 Fifth Ave and 105 W 40th St

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Dover Mfg Co—30 Church St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom, Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Livingston J & Co—104 E 41st St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Grand Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
Livingston J & Co—104 E 41st St
Mechanical Appliance Co (Watson)—39 Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Motors Co—149 Broadway
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wald Electric Motor Co—40 W 4th St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Bohn C C Electric Co—820 Sixth Ave
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const & Rpr Co The—25 Cleveland P
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6 E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave

Lists Continued on Page 85

March 1920

Manhattan Harbor About 1667

VOLUME 12

CONTENTS

NUMBER 3

The Edison Directory

	Page
Department Stores	65
Manufacturers and Agents	65-68, 85-86
Wiring and Installation Contractors	87-88
Authorized Mazda Lamp Agents	89-96
Material-Handling Machinery Manufacturers	96
Edison District Offices with map	Inside Back Cover

The Edison Monthly

	Page
Editorial	70
Material Handling	71
The Staten Island Piers	74
Industrial Trucks	77
Bowsprit Row	80
Unmooring (Old Sea Chantey)	83
Edison Pioneers (Photo only)	84

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F BRADY, President
WALTER NEUMULLER, Secretary
FREDERICK SMITH, Treasurer

It is surprising what one can learn from an hour's sail on a North River ferryboat. Make the trip from Cortlandt Street to Weehawken and back; spend the time on the upper deck; watch the harbor craft in the river and study the piers on both sides as the boat makes her way up the stream. You'll see the giant *Leviathan* in her dock at Hoboken and at the Chelsea piers on the Manhattan side you'll see the great liners that are now getting back into their regular commercial trips. Maybe you'll be fortunate enough to pass one of them in midstream.

The big ships, the lighters, the ferryboats, the car floats, the grain elevators, the tugs with their barges in tow, all combine to make a picture of wonderful animation. Here is the commerce of the country's most important port.

The thought naturally arises that there must be wonderful mechanical devices behind it all if this great traffic is to be handled rapidly and economically.

As a matter of fact New York is far behind in the handling of a bulk material at the various piers and railroad stations.

Look closely as your boat passes the docks. The piers just north of your ferry slip were built soon after the Civil War, and their lack of equipment is typical of practically the entire waterfront.

A little farther on you'll see the Chelsea docks. These are of more recent construction and are equipped with hoists which are operated in conjunction with the hoisting apparatus of the ship itself. The new pier at the foot of West 46th Street, has this same equipment.

Just before reaching Weehawken you will pass close by the Erie freight docks and here you will see the beginning of the new order in freight handling methods — an installation of gantry cranes straddling the railroad tracks and making possible quick transfer of freight from car to ship or lighter.

It is cranes somewhat similar to these that are to be installed on two of the twelve new piers the city is about to build at Staten Island. And with the cranes will be various types of conveyors, hoists, escalators, electric industrial trucks, and other kinds of material handling equipment.

Similar equipment is planned by the Cunard Company for that line's proposed piers at Weehawken, and the Army Base at Brooklyn already boasts a complete mechanical installation.

Although New York has been backward in the past in adopting new methods, all the signs indicate that the future will see this port with freight handling facilities that are in keeping with the commerce of the most important port in the country.

Material Handling

THERE are few things which appeal more to the modern business man than a method by which he may save money and at the same time speed up production. This perfectly natural desire to increase the income of his business has been directly responsible for the introduction of electricity in an ever increasing degree into every phase of industrial life.

Despite the fact that the argument has always been the same, "better work and more of it for the same cost," there have been, nevertheless, certain groups who have resisted the modern trend, preferring to pursue old fashioned methods rather than, as they saw it, take a chance on something as yet in its trial period. One phase of the commercial and industrial life of the country where electricity has been slow in coming into its own, that is, comparatively slow, is the material handling field.

The comparative sloth shown here has been in direct contrast to ordinary factory methods, and the juxtaposition of the two has been at times as interesting as it has been hard to explain. A completely electrified factory with humming motors, busy elevators, and belt conveyors between departments, not to mention illumination planned by an expert, would still load the freight cars at its doors by means of hand trucks; and this despite the fact that both factory manager and transportation head

Illustrations in this and the two following articles, by courtesy of the Material Handling Machinery Manufacturers' Association

An Electric Portable Tiering Machine Stacking Barrels of Oil

might be acknowledged "Efficiency" experts.

With the development, in recent years, of various types of material handling machinery, a gradual change has taken place. The same efficiency which now moves material in process of construction is found in the handling of the finished product as it journeys from the shipper to the carrier and ultimately to the consumer.

Those types of mechanically operated machinery, devices, and equipment which transport raw or finished products either horizontally or vertically may properly be termed material handling machinery. The term is not confined to devices which handle raw products or parts in process, but includes all forms of locomotive cranes, gantry, overhead traveling, and bridge cranes; hoists, winches, chutes, elevators, escalators, conveyors, transveyors, tiering and detiering and stacking machinery; industrial trucks and trailers; overhead or trolley conveyors, and apron or belt conveyors; portable conveyors, spiral and gravity conveyors, and bulk handling machinery.

Development in this field for the past ten years has been very rapid, few realizing the breadth of the field in which material handling machinery is now used. For instance, at the League Island Navy Yard, Philadelphia, is a 350 gross ton (784,000 pounds) lifting crane of the tower type, while near it is a hand truck portable crane which lifts and transports one-third to one-and-one-quarter tons. Automatic coal handling machinery varies from installations which raise and dump, in one operation, cars of 110 tons, to the chain bucket belt conveyors delivering coal in small quantities to furnace doors in boiler rooms.

Stacking Bales of Army Uniforms by Means of a Portable Electric Conveyor

Progress made in elevator development has been really marvelous. The largest system in the world is the installation of ninety-six "operatorless" elevators at the Brooklyn Army Supply Base. These are set in banks of ten—each bank being handled by a central dispatcher instead of ten individual operators. On these elevators is a "micro" levelling equipment which automatically controls the floor levelling of the car to the extent that each elevator is brought to within a quarter of an inch of the floor level without the attendance of an operator or guard.

Due to progress in the manufacture of industrial trucks and trailers there is available a complete assortment of these vehicles. They range from the load-carrying truck to the tractor with

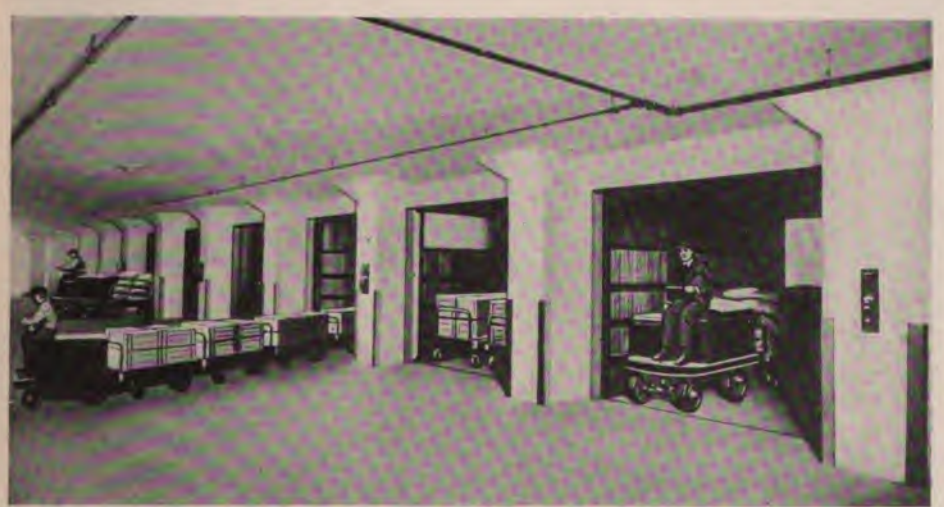
its group of trailers. This field also boasts a number of lift trucks and crane trucks of various capacities.

Among the installations made in the past year, where conveyors are used almost exclusively for factory and shop transportation, there is no more prominent development than the equipment in the textile field at Nashua, New Hampshire. Here conveyors automatically handle a great part of the movement of raw materials and finished products between machines on each floor.

Originally, the development of material handling machinery centered largely about the movement of bulk materials at shipping points. In fact, to this day, the handling of bulk cargoes on the Great Lakes represents probably the greatest tonnage which is handled by machinery at any one center or district. The development of automatic handling in the coal mining and in the iron and steel industries has also progressed to such an extent that a designer of new plants naturally presupposes the use of mechanical devices.

Constantly increasing cost of labor and the demand for greater production in all fields have brought about an extensive use of what are known as "unit handling devices" such as tiering and stacking machines, wagon loaders, industrial trucks, portable cranes, portable conveyors and single elevators.

Although New York has lagged behind other cities in the use of material handling machinery, a number of interesting installations have been made. Industrial trucks of the several types may be found on almost any of the piers. Conveyors and stacking machines are gaining in popularity and the new piers which are being planned will be equipped not only with conveyors and elevators but with great cranes capable of delivering twenty ton loads from the ship hold to freight car door.



One of the Groups of Operatorless Elevators at the Army Base in Brooklyn. Industrial Truck Trains Move Practically all the Goods Handled at this Mammoth Warehouse

The Staten Island Piers

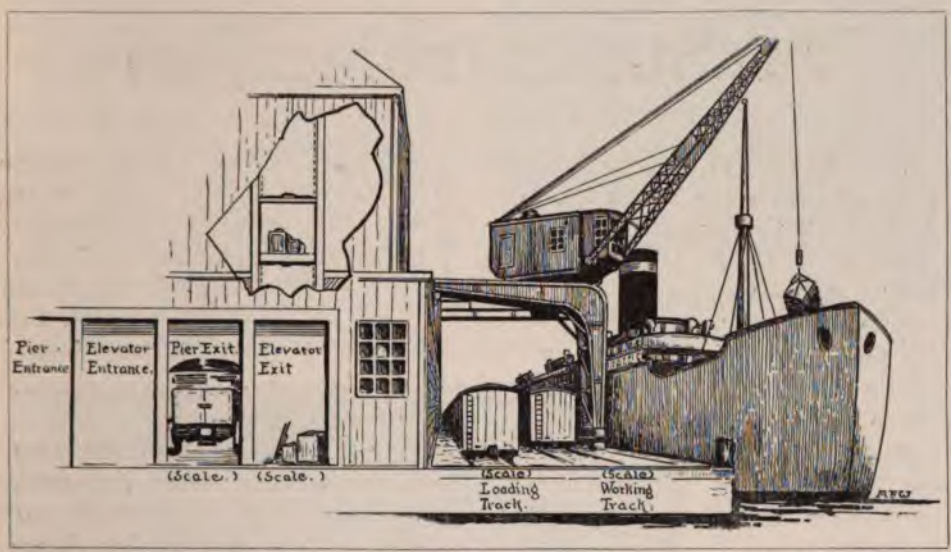
WHATEVER speed and efficiency has been developed in the loading and unloading of ships at the piers of New York has been due largely to the cargo handling equipment of the ships themselves rather than to anything unusual in the way of mechanical devices on the piers. Until the war brought its urgent demand for the more rapid movement of cargoes between pier or warehouse and ship, there was no attempt to provide any of the newly developed cargo handling machinery. Methods that had prevailed for years were considered good enough.

With the war, however, began a change in methods. Army bases, erected at different ports, were equipped with the very latest in mechanical devices. If a machine demonstrated that it could do the work of several men, the machine was installed and the men went to France. Today, these piers, although not operating at anywhere near their wartime capacity, still serve to demonstrate the advantages of mechanical over manual methods.

Indeed, plans are already under way for the construction of commercial piers which are to be equipped with these modern devices for freight handling. New York City is to build twelve piers at Staten Island, and the Cunard Steamship Company plans the erection of eight piers at Weehawken.

At Stapleton, Staten Island, New York City is undertaking what will

An Interesting Installation of Gantry Cranes at the Erie Freight Piers at Weehawken



This Gives a Rough Idea of the Crane Installation, the Railroad Tracks, the Two Decks of the Freight Shed and the Elevator Arrangements at the Pan-American Terminal and Dock Company's Pier at Staten Island

probably prove to be the greatest single waterfront development in the history of the city. Twelve great piers have been planned and work will be started this spring. That there is pressing need for increased pier facilities is shown by the fact that leases for all the piers were closed long before construction was started.

Each of the twelve piers will exceed a thousand feet in length, eight will be single-deck structures 125 feet wide, two will be 130 feet wide and two 209 feet wide. These four will be provided with double deck freight sheds. The 209-foot piers, numbers 12 and 13, will be used by the Pan-American Terminal and Dock Company, and will be equipped with the very latest in cargo handling machinery,—cranes, conveyors, elevators, scales, escalators and portable conveyors being provided for in the plans.

It is felt by the lessee and by others who advocate better methods in freight handling that conveyors and the other mechanical devices will materially reduce the cost of moving shipments through the piers. It is also felt that a more rapid loading and unloading of ships will be possible and that vessels will be required to spend less time in port. With demurrage charges running up into hundreds of dollars a day, this consideration alone is very important.

The piers, according to present plans, will each have a two-story freight shed approximately 125 feet wide, the remaining 84 feet providing a string piece on each side of the pier. The two forty-two-foot spaces thus available will be wide enough to accommodate two railroad tracks, a ten-foot loading platform on a level with the freight car floors, and space for the pedestals of the gantry cranes. There will be eight cranes on each side and one at the head of each pier, making a total installation of thirty-four cranes. These cranes are designed to take loads of from three to

twenty tons from the hold of the ship to the freight car door or to the upper deck of the pier for transfer to trucks. This will be accomplished without rehandling in any way.

In addition to the electrically operated cranes and railway tracks, the piers will be equipped with electric portable package conveyors, two freight car scales, two truck scales and an edequate installation of electric wiring for light and power. All of these will be installed by the city and will be used by the pier tenant under the terms of the lease.

The two loading floors, the bringing of freight cars right to the side of the vessel, the wide stringpiece and the various mechanical handling devices are expected to facilitate loading and unloading of vessels. This will result in a quick "turn-around" and an early departure from port.

Piers 15 and 16 will be 130 feet wide and will be occupied by the Union Transport Company. While the present plans do not contemplate a crane installation, these double-deck piers will be equipped with conveyors, elevators, escalators, portable conveyors, trucks and scales.

Among the other lessees of the Staten Island piers are the American Dock Company, Wessel and Duval and Company, Moore and McCormack, Edward H Raphael and Company, International Mercantile Marine Company, the Japanese Line and the Pouch Terminal Company.

The Cunard piers at Weehawken will be a thousand feet long and will exceed 150 feet in width. Details of the mechanical equipment have not yet been arranged, but it is known that the piers will have the usual complement of freight handling devices and that they will rival the best that is to be found in the unusually well equipped British ports.

Overhead Conveyors, When Used With a Moveable Bridge, Give Access to Every Part of the Pier Space. This Adjustable Loop System is Used on the Pier at Beaumont, Texas

The value of these mechanical devices is being demonstrated every day at our different ports. Two new piers at Texas ports have especially good freight handling records.

Last March the Beaumont terminal unloaded 2,040 barrels of asphalt at the rate of four and one-half barrels a minute. The total cost was only $25.16. Galveston, Texas, claims to be the fastest freight terminal in America and boasts of being able to clear a ship, with its mechanical devices, in twenty-four hours.

Industrial Trucks

IN the use of electric industrial trucks in handling freight shipments at piers and railroad yards, New York ranks with the leading ports of the world. Practically every ocean steamship line of importance, the river and sound lines, and the various railroads have or are replacing the slow hand truck with these battery driven freight movers. A very large part of the incoming and outgoing freight which passes through the piers on New York's waterfront is handled by these sturdy little vehicles. Indeed, of all the mechanical devices designed to expedite the handling of freight, the storage battery truck has received the greatest attention. Its operation has been studied and analyzed, its exact operating costs are known, and different types have been developed to meet different conditions. No matter how backward New York may be in the use of other mechanical equipments, the city is well to the fore in the use of these midget trucks.

This Six-Year-Old Industrial Tractor Has Traveled 180,000 Miles in the Goodyear Factory. It Hauls a 3,100 Pound Load Each Trip

One has but to watch a truck at work to appreciate what a factor for efficiency it is. To one familiar with the old hand truck methods, seeing this midget for the first time, the scene will be nothing short of marvelous. As there are piers which still use the old methods a little first hand investigation is not only possible but should prove decidedly interesting.

Let us consider a pier on which are yet to be found the hand methods of freight handling. A steamer arrives and immediately a gang of stevedores begins the work of unloading. The great side-hatches are swung open, and back and forth between the vessel and the pier a long serpent-like line of men, pushing hand-trucks, cross and recross the gangplank.

The freight is wheeled to places assigned to it and, as the piles increase, the pier space decreases and confusion and frequent collisions ensue. The freight, being handled entirely by hand-trucks and foot-power, is not carried any great distance from the gangway. This causes congestion at one place and leaves great spaces between gangways. Another source of

difficulty is experienced when cargoes are lifted out of the hold by the ship's hoisting apparatus and deposited upon the pier. Frequently the delivery to the pier is faster than its removal and piling up and expensive delays occur. Still another factor which contributes to the apparent confusion is the great and steadily increasing number of wagons and trucks waiting in the street to enter the pier and collect their consignments of freight. The gathering trucks not only make traffic dense upon the street but encroach upon the entrances of the neighboring piers.

Overhead Conveyors Leave Wide Floor Spaces for the Free Movement of Tractors and Trailers

The pier where industrial trucks are used presents a great contrast. Needless to say the truck has speeded up freight handling immensely. In unloading, the electric truck or tractor and trailer have made possible uniform distribution of freight, for trips to remote points on the pier can be made quickly. This allows wide aisles for street trucks to enter and leaves ample space for loading. As for receiving outbound freight it is a noticeable fact that where electric equipment is in operation, the receiving platforms are as clear at four o'clock (the usual closing time) and the situation is found to be as well in hand, as during any hour of the day.

There are now about three-hundred electric industrial trucks and tractors in service upon the piers of New York. In this aggregate there is a great variety as to type, size and kind. There are four types generally recognized. They are the load carrying, the tractors and trailers, the elevating platform and the crane equipped load carrying. One manufacturer has developed an elevating platform truck which is also crane equipped.

The load carrying truck is a popular type and is very effective where it is possible to run into the car or ship.

The tractor and trailer system is the favorite on long piers and also has its adherents for use under the usual conditions. By this system low, castered, trailers are pushed into the freight car or steamer, are loaded, and then wheeled out to be collected and moved in long trains by the electric tractor.

One of the most effective methods of moving freight is by the use of the elevating platform truck. The freight is loaded upon low platforms which are castered so that they may readily

be moved about. The truck backs under this platform, raises platform and load free from the ground, runs with it to its destination and returns with a stack of empty platforms. Uninterrupted service is maintained by the truck as it does not remain idle during the time the platforms are being unloaded or loaded.

The truck equipped with a crane is the load-carrying truck, supplemented by a small crane with which cumbersome objects are raised.

In every place where the electric industrial truck has been installed it has proved an economy in time and money. The electrical industrial equipment saves money for the simple reason that it handles more tonnage in quicker time than other methods. At a pier where a test was made, a tractor and trailer system showed impressive results in spite of the fact that the number of trailers was insufficient. By hand methods a 1000 ton cargo was moved at a cost of $413.91, while the industrial truck handled a similar shipment at a cost of only $101.71

On Pier 39 East River of the New York, New Haven and Hartford Railroad the freight handled averages roughly six hundred to seven hundred tons daily. This pier employs nine tractors with the proportionate number of trailers. At one of the freight stations of the Pennsylvania Railroad, a $25,000 industrial truck installation paid for itself out of the saving effected during the first three months of its operation, and similarly, a $36,000 installation at Pittsburgh was paid for from the savings.

The electric industrial is gaining in popularity all along the water-front, and it seems merely a matter of a short time before electrical equipment will displace the old hand methods, just as in street traffic the two-ton and three-ton truck is displacing the horse. This is also true of other places where freight is handled in bulk—the railroad transfer station, the large manufacturing plant, depots and storehouses, each of which has a long and interesting story in itself.

Moveable Platforms, When Loaded With Goods, are Picked Up and Moved Bodily by the Elevating Platform Trucks, Thus Eliminating Much Handling

Bowsprit Row

SOUTH Street of half a century ago was a strange and different place from the South Street which we know today. The odor of foreign spices, the peculiar freshness of Norway pine, the tarry ropes and the barrels of pitch all tended to give a distinctly nautical atmosphere to that section of the town. The creaking windlasses, the strange oaths of the motley crew who worked or loafed around the docks, the shouts of the angry teamsters, frequently held in line for hours and sometimes all through the night, added not a little to the general picturesqueness of a scene that has long since passed from New York and from the water front.

Illustrations by courtesy of Valentine's Manual

South Street in the Days When the Bowsprits Spanned the Thoroughfare

Smart clipper ships, schooners, brigs and barques lay at the docks, their masts towering skyward forming a veritable forest, and their bowsprits extending across the street almost into the windows of the buildings opposite.

It must not be supposed that the office boys of the day overlooked any such opportunity as these bowsprits offered. A favorite stunt among the juvenile representatives of the shipping firms was to scramble out on the bowsprits and peer into the windows of the South Street buildings nearby.

The heyday of South Street was reached no doubt during the early days of the '50s when the first great rush to California began. Hundreds of sailing craft, laden with miscellaneous cargoes of every description, left in a continual procession. Passengers were carried, as well as merchandise, and so lucrative were the rewards accruing to the shippers that many ships earned their entire cost from the proceeds of a single voyage. It was well they did, too, for crews deserted the ships for the gold fields, as soon as the anchor was down in San Francisco Bay. There are many pictures of old San Francisco showing the harbor filled with abandoned ships which lay there till they rotted at their moorings. It was a time of hectic existence. Never before had such marvelous tales been spread and it seemed as if the whole world had gone mad with the gold fever.

Tremendous betting accompanied every race to San Francisco. It sometimes happened that two or three of the best known clippers would complete their loading at about the same time and leave New York on the long ten thousand mile dash around the Horn within a day or two —sometimes only a few hours—of each other. When two ships like the *Flying Cloud* and *Andrew Jackson*—each with a record of less than 90 days to the Golden Gate—started out the same day there was the greatest excitement and the betting ran high. Every once in a while a homeward bound ship would reach New York bringing the relative positions of the two contenders. When it was known that only a few hours separated them after six weeks of constant sailing the excitement ran high and the Maritime Exchange was thronged with groups of excited men, wildly discussing the latest intelligence.

But South Street was not brought into existence wholly as a by-product by the California gold craze. A large and constantly increasing fleet of white winged beauties made regular trips to the Orient in the tea trade. The packet service to Liverpool boasted half a dozen lines in which the *Black Ball*, *Collins*, *Dramatic*, *Swallow Tail*, *Red Cross* and other ships won fame and celebrity because of their wonderful runs. Java Head to New York in 90 days was frequently reported and less than 20 days were required for the voyage from Sandy Hook to the old Head of Kinsale where the *Lusitania* went down. There is a tradition that the *Dauntless* of the Red Cross Line once made the New York-Liverpool run in about eleven days; but it is not mentioned by Captain Samuel Samuels who speaks of the best run as about fifteen days. Even the latter record was seldom exceeded by the early steamships many a long year before the nine day boat appeared.

An Announcement of One of the San Francisco Clippers. The Piers in These Days Were Primitive Affairs, and as for Handling Machinery and Industrial Trucks ———

The South Street Waterfront, and Wall Street Ferry of Half a Century Ago

Those who bewail the recent eighteenth amendment may be somewhat surprised to learn that the Yankee Merchant Marine was absolutely dry and that while all other nations served grog to their hands during the wintry passage round the Horn, the Yankee sailor received nothing stronger than hot coffee. The insurance companies offered a discount of 10% to any foreign shipmaster who would abolish the grog in favor of coffee.

Highly ornate and wonderfully lurid were the shipping cards which these merchants used in telling the public that one of their smart, speedy, clipper-built vessels was lying at Pier 9, East River, and would sail for the Pacific Coast in about three weeks. Shippers were urged to get their goods alongside as the vessel would sail the moment her cargo was completed.

There are no more *Sovereigns of the Seas* or *Sweepstakes* or *Young Americas*. The bowsprits and the chanties have gone. In their place is the creak of the motor-driven cargo hoist, the warning bell of the electric freight-handling truck and on sailing day—a deep throated roar as some great freighter backs out from her dock.

Unmooring

"All hands on board!" our boatswain cries,
His voice like thunder roaring;
"All hands on board!" his mates reply.
'Tis signal for unmooring.
Then your messenger bring to,
Heave your anchor to the bow.
And we'll think on those girls when we're far, far away.
And we'll think on those girls when we're far, far away.

"Go loose your top sails," next he cries,
"Top gallant sails and courses,
Your jibs and royals see all clear,
Haul home those sheets, my hearties."
With a light and pleasant gale
We will crowd aloft our sail.
And we'll think on those girls when we're far, far away.
And we'll think on those girls when we're far, far away.

"Your anchor's now a-peek," he cries,
" 'Vast heaving, lads, 'vast heaving.
Your cat and fish now overhaul,
The capstan nimbly leaving."
Then obey your boatswain's call,
Walk away with that cat-fall.
And we'll think on those girls when we're far, far away.
And we'll think on those girls when we're far, far away.

From "Sea Songs, Ships and Shanties"
Collected by W B Whall

The Edison Pioneers Help the Inventor Celebrate His Birthday

Photograph by The New York Edison Company

On Top Step: E A Skehan, Louis Pelzer, W H MacKay, C L Edgar, A E Winchester, Wilson Howells, R A Carter, H A Campbell, Alexander Mungle, E A Harley, C N Wurth, H A McLean

On Second Step: Mr Miller.....Charles A Estabrook, E G Acheson, S D Mott, Alfred O Tate, A W Kiddle, Charles S Bradley, E C Rowland, W M Brock

On First Step: Fred Ott, T Commerford Martin, Robert T E Lozier, Thomas A Edison, Jr, Charles Edison, Mrs Charles Edison, Mrs Madeleine Sloan, Thomas A Edison, Mrs Thomas A Edison, John W Lieb, the retiring President of the Pioneers, Francis R Upton, Frederick W Scheffler, J W Schroeder, Henry Stephenson, H M Williams

On the Ground: Robert A McCarthy, E H Latimer, John F Ott, W H Meadowcroft, Arthur S Beves, Frank Wardlaw

Major William J. Hammer, the new President of the Pioneers was not present when the photograph was taken

Manufacturers and Agents (Continued from Page 68)

Motors

Inspection—Maintenance—Repairs (Cont'd)

Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—145 East 18th St
Cutter F B Co—50 Church St
Eisenberg General Con Co—149 Grand St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Manufacturers Equipment Exchange—Lafayette and Prince Sts
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Electrical Repair Co Inc—240-242 West 25th St
Florandin & Co Chas H—110 West 40th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St

Signs Electric

Bofinger Bros—146 East 42dSt
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L (Flexlume Sign Co)—560 Seventh Ave
Universal Elec Stage Lighting Co (Kliegl Bros)—240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 ChurchSt
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1123 Broadway

Specialties

Betts & Betts Corp (Fuses-Refillable)—511 West 42d St
Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers)—1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes)—114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Household Service—21 E 40th St
Duntley Products Sales Co—295 Fifth Ave
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St

Manufacturers and Agents (Concluded)

Vacuum Cleaners (Concluded)

Frantz Premier Distrib Co Inc—2010 Broadway
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St.
Lightolier Company—569 Broadway
Lindstrom Smith. Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers) —11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—42 East 23rd St.
Lightolier Co—569 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co (Geyser) —35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)— 119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Killoch David Co—57 Murray St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Nugent Electrical Supply Co—7 W 29th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 196—M Zuckman
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Grand St 149—Eisenberg General Con Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Varick St 203—Riccio Electrical Contractors
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 141—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1168—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 9th St 320—Endig Electrical Works
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 18th St 145—Belyea Company
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker Electric Co
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co
Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co

Wiring and Installation Contractors (Concluded)

Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Madison Ave 407—Manhattan Elec Cont Co
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 605—"B" Electric & Hardware Co
Third Ave 731—Metropolitan Electric Co
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
East 95th St 156—Edward Zenker
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
East 125th St 163—F J Rush
Park Ave 1630—Wimpie Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 152nd St—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 11½— S W Mills
East Fordham Road 273—Endig Elect Works
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barclay St 109—Spilger Electric Co
Barrow St 25—Jos Torre
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beekman St 96—Naumer Electric Co
Bleecker St 13—Schwartz & Blumengarten
Bleecker St 122—A Epstein
Broad St 39—Beaver Electric Co
Broad St 68—Broad Equip Co of N Y
Broad St 122—Stewart-Dickson & Co Inc
Broadway 1—William Vautin
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Electric Co
Broadway 302—Harry Weinstock
Broadway 335—Monowatt Elec Import Co
Broadway 371—Rabinowitz & Kluger
Broadway 383—A Edelman
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 435—Radiant Electric Lmp Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broadway 652—New Era Appliance Corp
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 243—Van Ben Thuysen Robt Co Inc
Canal St 261—Stransky Mfg Co
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 392—Welsbach Gas Lamp Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 196—Max Zuckman
Centre St 231—Worth Electric Co
Chambers St 101—Broadway Hardware Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Chatham Square 2—Louis Abrahams
Church St 30—Wm Braun
Church St 30—H P Copeland
Church St 30—P A McGuire
Church St 50—F W Collins
Church St 50—Standard Drug Co
Church & Vesey Sts—Metropolitan Hardware Co
Cleveland Pl 25—Globe Electric Co
Cooper Square 10—Philip Addison
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin
Cortlandt St 39—W S Broadhurst
Cortlandt St 39—R G Cory
Cortlandt St 42—Terminal Cycle & Sporting Goods Company
Cortlandt St 70—W R Pabst
Cortlandt St 84—Bleyle Electric Co
Cortlandt St 86—A E Gelling
Dey St 48—John J Leahy
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 52—Flitner Atwood Co
Front St 62—William E Williams
Front St 124—Charles Davidson
Front St 162—W S Pendleton Jr & Co
Front St 194—E George & Co
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—David Perlman
Fulton St 110—Marlen Hdwe Co
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Fulton St 248—Williams & Wells Co
Gold St 13—Anderson & McKenzie
Gold St 46—Van Axen Elec Co
Grand St 162—Adam Kalb
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 211—Interborough Lighting FixtureCo
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 185—Weyant Electrical Supply Co
Greenwich St 255—G M Ross
Greenwich St 293—King Electric Const Co
Greenwich St 460—A F Beckman & Co
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 84—Alfred Whiteley Inc
John St 99—T Frederick Jackson Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 95—John W Hooley
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Chas W Osburg Co
Liberty St 120—Welborne & Co Inc
Liberty St 123—Smith-Meeker Eng Co
Liberty St 126—Thomas & Johnson
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 91—Weber & Jones
Mott St 44—Quong King Long Co
Murray St 23—Stanley & Patterson
Murray St 37—Fensterer & Ruhe
Murray St 43—Conlan Electric Co
Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 140—Reid-Yeomans & Cubit Inc

Authorized Mazda Lamp Agents (Continued)

Nassau St 145—N Y Supply & Inspection Co
Nassau St 154—Minato Honga Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 15—United Adjustment Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 35—Henry A Kissel & Co
Pearl St 39—Commercial Construction Co
Pearl St 116—Kelting Electric Co
Pearl St 550—E B Latham & Co
Prince St 44—Louis Iorio
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 81—H & F Metzinger
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Sullivan St 29—Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Varick St 203—Riccio Electrical Contractors
Vesey St 59—L Gabler & Son
Vestry St 35—Northwestern Electric Equip Co
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 97—Wm E Glaeser
Warren & Church Sts—Perlman Auto & Cycle Supply Co
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
West Broadway 176—O M Matzen
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 491—Acme Machine & Motor Co
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West Houston St 20—Stein Manufacturing Co
West St 90—Peters & Peters Inc
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
White St 39—Wm Rouguett
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
Wooster St 33—Paul Silverstone
Wooster St 176—Jos Kerne

East Side District

Avenue D 2—The New Interboro Electric Co
Avenue D 53—Barnett Rosenberg
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Fix Co
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 283—Dulberger Sup Co
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—Pioneer Lighting Fixture Co
Broome St 327—N Y Gas Light Co
Clinton St 91—A Z Electrical Supply Co
Delancey St 84—Frank Silverman
Delancey St 102—Rubin Bros
Delancey St 188—Louis Boritz
Division St 87—Soffen Brothers
Division St 133—Lincoln Cont Co
East Broadway 88—Minkowitz & Cohen
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 93—I Berkowitz
East Houston St 170—D Stein
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 36—Max Leaf
East 4th St 69—Eastern Electric Works
East 4th St 75—Charles Lipschultz
East 4th St 128—Isadore Schajowicz
Essex St 62—Public Elec Supply House
Essex St 172—W Katz
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 142—J Zucker
Forsyth St 182—Ben Goldberg
Henry St 121—James Drucker
Ludlow St 69—Chas I Silberman
Ludlow St 144—Louis Yuster
Monroe St 11—Anglo Amer Elec Co
New Chambers St 4—Louis Purcaro
New Chambers St 22—Clover Electric Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Pike St 30—Freeman Bros
Rivington St 265—M Franzblau
Second Ave 73—J Brown

Irving Place District

Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1133—Electrical Consumers Adjustment Corporation
Broadway 1155—Empire Electric Co
Broadway 1161—Antler Elec Co
Broadway 1168—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 9th St 43—Superior Elec Co
East 10th St 30—Spero & Cohen

Authorized Mazda Lamp Agents (Continued)

East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 13th St 34—A L Todd
East 14th St 7—William Landau
East 14th St 10—Acme Electric Co
East 14th St 10—Automatic Awning Control Device Corp
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 17th St 18—Metropolitan Elec Lamp Co
East 22d St 18—Consumers Elec Lamp & App Co
East 22d St 27—Charles Elec Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 28—A Marchard
East 23rd St 131—Chas Besler & Co
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—William Fredericks
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 334—Wm Purdy
Fifth Av 63—Edison Lamp Service Co Inc
Fifth Ave 75—H M Walter
Fifth Ave and 26th St—Park & Tilford
First Ave 312—A Koppeman
Fourth Ave 108—I Gluck
Fourth Ave 110—B H Turecan & Co
Fourth Ave 121—Borough Elec Co
Fourth Ave 125—A Wangerin
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 130—Goldberg & Rubenstein
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Seventh Ave 182—Finkelstein Bros
Seventh Ave 189—E Christensen
Seventh Ave 219—Subway Hardware Co
Seventh Ave 227—The Little Electric Co
Seventh Ave 243—Keppler Bros
Seventh Ave 296—B Adler
Sixth Ave 164—McGeady Electric Co
Sixth Ave 182—Geo H Bingler
Sixth Ave 183—M A Karp
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 431—Siegel & Rittner
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—Acorn Electric Cont Co
Tenth Ave 239—I P Frink Inc
Tenth Ave 246—Robert F Hitchman
Third Ave 182—Metz-Solars & Co
Third Ave 184—Henry Green
Third Ave 238—G & P Elec Supply House
Third Ave 384—D B Pershall & Son
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 54—Radice Electric Co
West 13th St 107—Dale Ltg Fix Co
West 13th St 408—Bullock Mfg Co
West 14th St 41-3—Sam Frost
West 14th St 112—Raphael, Morris & Co Inc
West 14th St 131—Harry J Mabs
West 14th St 132—Acme Lighting Fixture Co
West 14th St 232—Wm H Crary
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 15th St 22—Simes Co
West 16th St 4—Central Elec Supply Co
West 16th St 111—E Korkes
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 21—Rambam & Rosenberg
West 17th St 44—Rambeau & Sheflin
West 17th St 48—Beidner Elec Co
West 17th St 102—Perlman Elec Co
West 17th St 105—Manhattan Elec Ltg Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 227—Lighting Eng Service Co
West 19th St 8—Biglin & Moffatt Lamp Co
West 19th St 25—Horowitz & Leff
West 19th St 40—Lewis Harbitter
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 27—Import Sales Co
West 20th St 120—Reliable Sewing Machine & Electric Co
West 21st St 9—Ferber Electric Co
West 21st St 66—D C Electric Co
West 21st St 117—Morris Gika
West 21st St 162—Chelsea Elec Motor Rep Co
West 23rd St 147—Bruck & Heller
West 23rd St 235—Eastman Kodak Co.
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Goodman Jablon
West 24th St 105—Samuel Vogel
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Authorized Mazda Lamp Agents (Continued)

Forty-second Street District

Broadway 1215—B W Glick
Broadway 1358—Siems & Co
Broadway 1368—Arrow Electric Shop Inc
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1416—H R Lockwood Co
Broadway 1476 Suite 1013—American Electric Construction Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
Broadway 1743—Times Square Auto Sup Co
East 29th St 34—Albin Gustafson Co
East 29th St 41—S H Kline
East 30th St 2—Simpson Electric Co
East 30th St 8—Electric Magnet Co
East 32nd St 19—R E Leve
East 38th St 151—Sussman & Sussman
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 41st St 104—J Livingston & Co
East 42nd St 18—Herbert & Huesgen Co
East 42nd St 146—Bofinger Bros
East 42nd St 236—H F Electric Co
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 17—Black & Boyd Mfg Co
East 48th St 201—Tiedelmann & Bohrer
East 52nd St 19—White Allom & Co
East 57th 206—Paul F Weinbeer
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
East 59th St 241—S A Ecker
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 347—B & B Sign Co
Fifth Ave 417—Underwood & Underwood Inc
Fifth Ave 503—A W Haire
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Building—Concou Electric Shop
Grand Central Terminal Bldg—Room 1735 G V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave 331—Herz Pharmacy Co
Lexington Ave 581—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Lexington Ave 769—Colonial Gvt & Elec Con Co
Madison Ave 275—Walsh Electric Supply Co
Madison Ave 361—Tiffany Studios
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 619—Frankle Alffias
Madison Ave 631—Kellog & Bertine
Ninth Ave 604—Geo Unsold
Ninth Ave 610—Pisch Elec Sign Co
Ninth Ave 630—Nathan Marks
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Second Ave 1111—New Bank Elec Supply C Inc
Seventh Ave 358—Bazaar Franko American
Seventh Ave 468—Bank Elec Co
Seventh Ave 515—Van Beuren & N Y Bill Pos ing Company
Seventh Ave 560—L L Strauss
Seventh Ave 729—Howell's Cine Equipment C
Seventh Ave 729—Independent Movie Sup C
Seventh Ave 729—B F Porter
Sixth Ave & 57th St—Acker Merrall & Condit C
Sixth Ave 493—Louis Doushkess
Sixth Ave 636—Fred B Zender
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 947—JohnW Flint
Sixth Ave 1009—John T Whitehead
Sixth Ave 1093—Mt Morris Auto Sup Sta
Tenth Ave 486—Geo E Valley & Bro
Tenth Ave 672—J G Gloecker
Tenth Ave 755—H F Lutters
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 444—Fred Hardy
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 497—Manhattan Hdwe & Tool Co
Third Ave 518—Davis Bros
Third Ave 605—"B" Electric & Hdwe Co
Third Ave 631—Chelsea Electric Co
Third Ave 647—Julius Gabler
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co

Authorized Mazda Lamp Agents (Continued)

Third Ave 918—Sidney Frey
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 128—Joseph Gershon
West 30th St 151—Alpha Electric Co Inc
West 30th St—Jaffer Electric Co
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Company
West 31st St 28—West Side Electric & Tinsmithing Co
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 32nd St 110—C. G. Willoughby
West 32nd St 114—Welland & Bruland
West 32nd St 130—W F Irish Co
West 33rd St 221—E J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 419—Gordon & Koppelson
West 36th St 126—Metropolitan Elec Sup Co
West 37st St 55—Eagle Electric Co
West 37th St 58—Roesser Studios Inc
West 38th St 47—Samuel Jawitz
West 38th St 66—Herald Lamp Service
West 40th St 105—Publicity Clock Co
West 40th St 143—Smith Elec Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 103—Teale Supply Co
West 41st St 232—Paramount Elec Const Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 442—Sharlow Bros Co
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 48th St 304—Joseph Beck
West 47th St 310—H J McKinnon
West 48th St 168—Progressive Poster Exchange
West 48th St 244—M Schweiger & Co Inc
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52d St 136—Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 149—L Segalbaum
East 81st St 444—B Lovinger
East 84th St 158—Gabriel Erdos
East 86th St 148—Rose Electric Co
East 86th St 341—L S Metzger
East 95th St 156—Edward Zenker
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1461—Fuld & Fuld
First Ave 1576—Joseph Corak
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1182—DoWell Elec Co
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Contr Co
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1828—Zoltan Hartmann Elec Co
Second Ave 1838—P Stein
Third Ave 1011—J M Kohlmeir
Third Ave 1055—F Gretzer's Sons
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Jas Gear

Authorized Mazda Lamp Agents (Continued)

Third Ave 1286—F & B Electrical Co
Third Ave 1298—J Rappaport
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1545—N W Altman Co.
Third Ave 1636—Benjamin Phillips
Third Ave 1658—Electrical Maintenance Co
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 97—Max Weiss
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 326—1 H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 5 1—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—B Murphy
Amsterdam Ave 941—Julius C Belmonte
Amsterdam Ave 943—P T Dunn
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Markle Hardware Co
Amsterdam Ave 989—Marcus & Klein
Amsterdam Ave 1084—Samuel Garnter
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 434—J Feldman
Amsterdam Ave 641—Gold Rose Hardware Co
Amsterdam Ave 814—Louis Flato
Amsterdam Ave 2232—Samuel Greenberg
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1834—Trop Specialties Co
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1987—King Tire Co
Broadway 2104—Modern Ltg Co
Broadway 2142—C B Montagriff
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2299—M J Kane Inc
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 2th St—Park & Tilford
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3181—Dorb Drug Co
Broadway 3906—M Lewis Inc
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 26—Magneto Elec Generator Co
Columbus Ave 144—E May Inc
Columbus Ave 171—N Vincenzi
Columbus Ave 189—Budnick Bros
Columbus Ave 196—Columbus Elec Co
Columbus Ave and 72d St—Park & Tilford
Columbus Ave 220—T F Carr
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—Alexander C Paterson & Son
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 942—L Green
Columbus Ave 008—LeMar Sup Store
East 112th St 73—Behl Electric Co
East 113th St 21—Modern Elec Cont Co
East 115th St 58—M S Rosenfeld Bros
East 116th St 204—Empire Gas & Elec Fix Co
East 125th St 163—F J Rush
Eighth Ave 2073—Phil Epstein
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2371—West End Bee Hive
Eighth Ave 2441—A E Jackson
Fifth Ave 410—S J Eisner
Hancock Place 3—Progressive Electric Co
Lenox Ave 22—Morris Perla
Lenox Ave 151—Louis Saphier
Lenox Ave and 26th St—Park & Tilford
Lenox Ave 346—Herman Young
Lenox Ave 394—S. Lichtenstein
Lenox Ave 403—Lenox Elec Co
Lenox Ave 468—Frank & Meyers
Lenox Ave 603—Herman Pinkiert
Lexington Ave 1855—Shane Electric Co

Authorized Mazda Lamp Agents (Continued)

Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1889—Gristede Bros Inc
Second Ave 2236—A Freeman
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 1121—Arrow Elec Shop Inc
St Nicholas Ave 1422—Manhattan Lamp Service Co
St Nicholas Ave 1368—Le Mar Supply Co
St Nicholas Ave 1511—I Selly
St Nicholas Ave 1599—Elec Appliance Shop
St Nicholas Ave 1617—Henry Green
Third Ave 2098—Iron Spec Co
Third Ave 2352—Chas Mann & Co
West End Ave 165—F W Astarita
West 61st St 16—Asch & Co Inc
West 66th St 161—Leo Strus
West 70th St 104—Samuel Moses
West 70th St 236—S A Friedman
West 72nd St 172—John B Campbell
West 72nd St 176—Kaufman & Burkert
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 118th St 430—Morningside Elec Supply Co
West 125th St 125—I Davega, Jr
West 125th St 125—L Davega Inc
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—E A Briggs
West 125th St 215—M J Heller Elec Co
West 126th St 301—C O Alberga & Co
West 127th St 602—James Cunneen
West 135th St 107—C M Moten

Bronx (Melrose District)

Boston Road 1168—N Goldman
Boston Road 1304—Mayo Lighting Fixture Co
Brook Ave 172—S Dworkin
Brook Ave 520—M Goldman
Burnside Ave 4—F B Electric Co
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 142nd St 781—Wilson Maeulen Co
East 149th St 358—Weber Supply Co
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 448—A Dessner
East 152d St 726—Joseph B Josephson
East 152nd St 739—Gustav Abramowitz
East 152nd St 835—J Lowe
East 153rd St 404—Joseph Mancusi
East 160th St 770—Jacob Garten
East 161st St 615—J F Smith
East 163rd St 736—Sayles Electric Co Inc
East 163rd St 965—Isidor Schohan
East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—M Finklestein
East 167th St 460—M Schwarzler
East 169th St 535—B Weiss Electric Co
East 169th St 638—Max Berminer
East 169th St 936—Mathew Sussman
East 177th St 1753—C H Wallace
Forest Ave 947—Ed Gorodess
Freeman St 860—Sidney Cannold
Freeman St 879—L Drescher
Hunts Point Ave 895—Max Maged
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Intervale Ave 1008—B G Roeber
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 950—Louis Gladstein
Longwood Ave 972—Adolph Greenblat
Melrose Ave 558—Hub Elec Supply Co
Melrose Ave 776—Ed O Steinoch
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mahler Electric Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1308—Louis I Waldman
So Boulevard 1319—Jacob Katz
So Boulevard 1327—A Dressner
St Ann's Ave 342—S Wishnevsky
Stebbins Ave 1142—Walshin Bros
Teller Ave 899—George Venney
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2718—A L Biltchick
Third Ave 2744—S Spiero
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Gurland
Third Ave 3151—We Lektrify U Corp
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3808—Adolph Siegel
Union Ave 673—R J Atherly
Union Ave 767—Henry Cohen
Washington Ave 937-1037—M Regelson
Washington Ave 1226—Leopold Altman
Washington Ave 1631—Yorkville Elec Fix Co
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 796—Kessler & Steinman
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Elec Shop Inc
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Westchester Square 134—D S Robinson
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias
Willis Ave 478—M P Weintraub

Bronx (Tremont District)

Audubon Ave 335—Wm Ward
Boston Road 1360—Joseph Leckart
Boston Road 2017—H Von Hadeln
Claremont Pkway 505—Claremont Elec Co
Clinton Ave 2117—Wm H Blank
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co

Authorized Mazda Lamp Agents (Concluded)

East Fordham Road 338—H & M Bloom
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 575—Nonpareil Gas & Elec Co
East Tremont Ave 755—Becker Bros
Tremont Ave 855—Boris J Medove
East 180th St 350—Philip Klein
East 180th St 554—A Feig
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 183rd St 68—Ace Electrical Co
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East 233rd St 343—Joseph Reda
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2376—W W Electrical Co
Jerome Ave 2423—J Wollak
Kelly St 1015—G & M Electric Co
Morris Park Ave 685—M W Smith
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
Park Ave 4206—Hugh J Casey
So Boulevard 1881—Louis Flatau
So Boulevard 1941—Abraham Herman
Thieriot Ave 1269—Thieriot Radio & Elec Co
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4197—Adolf Birnbaum
Third Ave 4239—Northern Gas & Elec Fix Co
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2601—Eli Ancowitz
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2775—Rudd Bros
Webster Ave 2787—Fordham Elec Supply Co
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 181st St 553—George Hunter
West 231st St 165—Louis Grossman

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway Office—424 Broadway
East Side Office—124 Essex St
Irving Place Office—10 Irving Place
Forty-second Street Office—124 West 42d St
Eighty-sixth Street Office—151 East 86th St
One Hundred and Twenty-fifth Street Office—15 East 125th St
Bronx (Melrose Office)—362 East 149th St
Bronx (Tremont Office)—Tremont and Monterey Aves

Material-Handling Machinery

Cranes, Hoists and Winches

Alfred Box & Co Inc—Woolworth Building
Alliance Machine Co—Alliance Ohio (No New York Office)
American Hoist & Derrick Co—50 Church St
Brown Hoisting Machinery Co—50 Church St
Champion Engineering Co The—149 Broadway
Chesapeake Iron Works—Woolworth Bldg
Cleveland Crane & Engineering Co—50 Church St
Clyde Iron Works—50 Church St
Edgar A Brosius—Pittsburgh Pa (No New York Office)
Edward F Terry Mfg Co—Grand Central Terminal
Heyl & Patterson Inc—90 West St
Industrial Works—50 Church St
Lidgerwood Mfg Co—96 Liberty St
Link Belt Co—299 Broadway
Manning, Maxwell & Moore Inc—119 W 40th St
Mead Morrison Mfg Co—149 Broadway
New Jersey Foundry & Machine Co—90 West St
Northern Engineering Works—120 Broadway
Shepard Electric Crane & Hoist Co—30 Church St
Sprague Electric Works—527 West 34th St
The Maine Electric Co—26 Cortlandt St
Victor R Browning & Co—480 Lexington Ave

Gravity and Power Conveyors

Brown Portable Conveying Machinery Co—30 Church St
International Conveyor Co—50 East 42nd St
Mathews Gravity Carrier Co—50 Church St
Robins Conveying Belt Co—13 Park Row
Rownson, Drew & Clydesdale Inc—68 William St
The Alvey Ferguson Co—110 West 40th St
The Lamson Co—15 West 44th St
The Standard Conveyor Co—227 Fulton St
The Jeffrey Mfg Co—50 Dey St
Alvey Manufacturing Co—105 West 40th St

Elevators

Otis Elevator Co—11th Ave & 26th St
Watson Elevator Co—407 W 36th St

Industrial Trucks

Elwell Parker Electric Co—50 Church St
Karry Lode Industrial Truck Co—100 Nott Ave L I City N Y
Lakewood Engineering Co—111 Broadway

Bulk Handling Machinery

The McMyler Interstate Co—50 Church St
Michener Stowage Co—17 Battery Place
The Wellman-Seaver-Morgan Co—50 Church St

Miscellaneous Equipment

Blaw Knox Co—165 Broadway
Electric Controller & Mfg Co—50 Church St
The Hayward Co—50 Church St
Revolvator Co—Jersey City N J (No New York Office)
Warren & Irrgang—Springfield Mass (No New York Office)
Hyatt Roller Bearing Co—1 Madison Ave

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

Commercial Trucks

Atlantic Electric Vehicle Co—893 Frelinghysen Ave Newark
Commercial Truck Co of America—405 Lexington Ave
Lansden Company—50 Church St
Oneida Truck Co—505 Fifth Ave
Couple Gear Company—11th Ave & 30th St
Walker Electric Vehicle Co—Grand Central Terminal Room 3709
Ward Motor Vehicle Co—Grand Central Terminal Room 5736

Industrial Trucks

Automatic Transportation Co—258 Broadway
Buda Company—30 Church Street
Baker R & L—17 Central Park West
Cowan Truck Company—103 Park Avenue
Ellwell Parker Company—50 Church Street
C W Hunt Inc—140 Nassau Street
Hoagland Thayer Company—300 Washington Street Newark
Industrial Truck Company—103 Park Avenue
Karry-Lode Industrial Truck Co—Grand Central Terminal
Koppel Industrial Car & Equipment Co—30 Church St
Lakewood Engineering Co—111 Broadway
Lansing Company—492 Broome St
Mercury Manufacturing Co—25 Cuhrch St
Walker Electric Vehicle Co—Grand Central Terminal Room 3709

Passenger Cars

Detroit Electric Car Co—20 Central Park West
Milburn Light Electric—720 Ocean Parkway Brooklyn
Healy Coach Company—1662 Broadway
Rauch & Lang Inc—17 Central Park West

Storage Battery Charging Apparatus

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Northwestern Electric Co The—1457 B'way
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Witherbee Storage Battery Co.—643-9 West 43rd St.

Electric Garages

For Storing and Charging in New York City

Commercial Car Garage

Acker Merrall & Condit Co—532 West 46th St
Brunswick Garage The—474 West 130th St
Doelger Peter—407 East 55th St
Edison Storage Battery Co—247 West 35th St
Exide Battery Depots Inc—29 West 23rd St—145 East 25th St—West End Ave & 64th St.

Passenger Car Garage

Electric Garage The—Central Park West & 62nd St

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way

Manufacturers and Agents (Continued)

Mechanical and Battery Parts (Concluded)

Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St

Buffers—Polishers

Barker John H—95 Liberty St
Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway
Western Electric Co—151 Fifth Ave and 105 W 40th St

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Conveyors

Alvey Ferguson Co The—110 West 40th St
Alvey Manufacturing Co—105 West 40th St
Brown Portable Conveying Machinery Co—30 Church St
International Conveyor Co—50 East 42nd St
Jeffrey Mfg Co The—50 Dey St
Lamson Co The—15 West 44th St
Mathews Gravity Carrier Co—50 Church St
Robins Conveying Belt Co—13 Park Row
Rownson, Drew & Clydesdale Inc—68 William St
Standard Conveyor Co The—227 Fulton St

Cranes, Hoists and Winches

Alfred Box & Co Inc—Woolworth Building
Alliance Machine Co—Alliance Ohio (No New York Office)
American Hoist & Derrick Co—50 Church St
Brosius Edgar A—Pittsburgh Pa (No New York Office)
Brown Hoisting Machinery Co—50 Church St
Browning & Co Victor R—480 Lexington Ave
Champion Engineering Co The—149 Broadway
Chesapeake Iron Works—Woolworth Bldg
Cleveland Crane & Engineering Co—50 Church St
Clyde Iron Works—50 Church St
Hayward Co The—50 Church St
Heyl & Patterson Inc—90 West St
Industrial Works—50 Church St
Lidgerwood Mfg Co—96 Liberty St
Link Belt Co—299 Broadway
Maine Electric Co—26 Cortlandt St
Manning, Maxwell & Moore Inc—119 W 40th St
McMyler Interstate Co The—50 Church St
Mead Morrison Mfg Co—149 Broadway
Michener Stowage Co—17 Battery Place
New Jersey Foundry & Machine Co—90 West St
Northern Engineering Works—120 Broadway
Shepard Electric Crane & Hoist Co—30 Church St
Sprague Electric Works—527 West 34th St
Terry Mfg Co Edward F—Grand Central Terminal
Wellman-Seaver-Morgan Co The—50 Church St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electric Corporation (Rapid Dish Washer) —119 W 42d St
Livingston, J & Co—104 E 41st St
Phillipson Emil—110 W 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf) —303-305 Fifth Avenue

Manufacturers and Agents (Continued)

Electro-Therapeutic and Dental Apparatus (Concluded)

Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Morison Electric Supply Co—15 E 40th St
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
Electrical Repair Co Inc—240-242 West 25th St
Elevator Supplies Co Inc—1515 Willow Ave Hoboken N J
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)
Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevato · Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Revolvator Company—Jersey City N J
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Watson Elevator Co—407 West 36th St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bohn C C Electric Co—820 Sixth Ave
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Cincinnati Specialty Mfg Co—39-41 Cortlandt St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Frost Samuel—41-43 W 14th St
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St

Manufacturers and Agents (Continued)

Fixtures and Portables (Concluded)

Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morison Electric Supply Co—15 E 40th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Penn A C—Singer Building
Phenix Lighting Fixture Co—144 Bowery
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Roeser Studios Inc—58 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way
Western Electric Co—151 Fifth Ave and 105 W 40th St

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St
Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY
Western Electric Co—151 Fifth Ave and 105 W 40th St

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Dover Mfg Co—30 Church St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom, Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Livingston J & Co—104 E 41st St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Grand Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave

Lists Continued on Page 117

April 1920

Washington Hall, 1853

VOLUME 12

CONTENTS

NUMBER 4

The Edison Directory

	Page
Department Stores	97
Manufacturers and Agents	97
Wiring and Installation Contractors	119
Authorized Mazda Lamp Agents	121
Edison District Offices with Map	Inside Back Cover

The Edison Monthly

	Page
Editorial	102
System in the Home	103
Wise O. M. Watt (Verse)	106
Shantytown	107
The Interplanet Party Wire (Verse)	109
The Western Union Building (Photograph)	110
The Bennett Building (Photograph)	111
Still At It	112
The Soul of the Trees (Verse)	115

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Walter Neumuller, Secretary
Frederick Smith, Treasurer

More than five hundred firms in one hundred lines of business are using 3500 electric trucks in New York today. Of these trucks, more than two-thirds—2448 to be exact—have been in service for five years or more. Five years is a long time for any vehicle to stand up under the wear and tear of daily service through the traffic-filled streets of New York. Indeed, by many it is felt that a truck will have worn itself out in a much shorter time.

But, as indicated in the article published elsewhere in this issue, the electric truck seems just to be getting into its stride at the end of five years and vehicles with service records of eight and ten and even twenty-one years are reported. For the electric is claimed the honor of being the butt of the street gamins derisive hail of "git a horse." The cry was as frequent as the horseless carriage itself twenty years ago. But the electric survived both the small boys' witticism and the vicissitudes of an infant industry and today, 3500 strong, is proving a dominant factor in the transportation of the city's merchandise.

One speaks literally, rather than figuratively, in saying that the horseless carriage survived the small boy of twenty-one years ago, for as the article in question relates, five trucks that began service in 1899 are still at it. Twenty-one years of service would mean a rate of depreciation of less than five per cent; truly a low charge to be added to the overhead in any calculation of the operating cost of electric trucks.

With the unsystematized methods prevailing in many homes to-day, Mother works seventy-nine hours in accomplishing her weekly household tasks, while with labor saving devices, used systematically, she can do the same work in sixty-two hours.

These startling facts were discovered by the Home Economics Bureau of The New York Edison Company during a study of the problem of reduction of work in the home. The study was helpful for it not only disclosed an unfortunate condition but, as related in the article "System in the Home," offered the remedy.

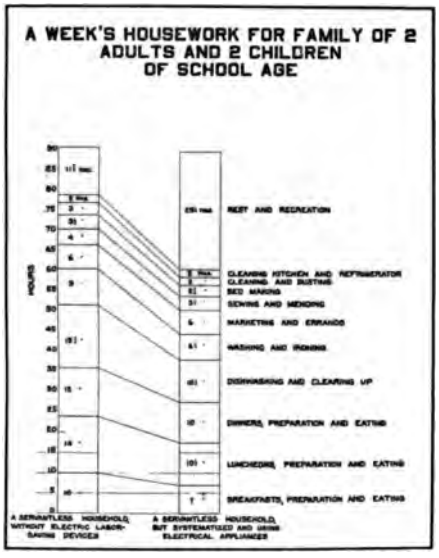
The remedy is simple enough—a well planned day, and the use of mechanical devices.

In both cases the gross working day was practically the same—thirteen hours. But in one case Mother spent more than eleven hours at actual work, while in the other the working period was less than nine hours. The seventeen hours saved, were so distributed that Mother had opportunity to rest more than two hours each week day.

These figures are not based on mere theory. They were compiled after a study of actual conditions in typical New York homes. The sixty-two hour week is an accomplished fact and how it may be realized is told in the article and shown by the charts.

System in the Home

WHEN talk first began of an eight hour day in the home, the suggestion was frequently met with the scornful reminder that as most families arose at seven and dined nearly twelve hours later, the eight-day in the home was meant only for the wealthy who could afford to provide help in eight hour shifts. Such objection usually came from the housekeeper of the good old-fashioned kind, who had managed her home successfully under the old *regime*, and could see no reason for changing.



As about ninety-nine women out of every hundred in the United States now know, the old domestic order has changed; and as there seems no chance of the domestic clock-hands conveniently reversing to where they were in, say, 1910, the enterprising women of this country are trying to do what they can to make housework conform to the new idea.

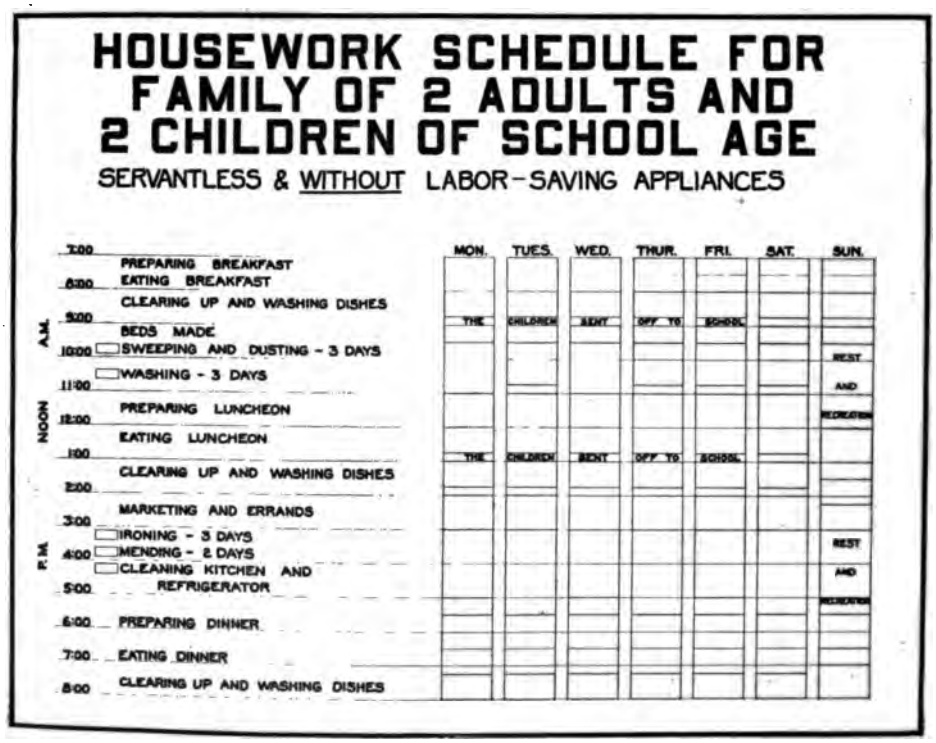
This is no simple task, for first of all, the fact must be faced, that as far as actual duration of hours is concerned, housework comes much nearer being a fourteen hour day—with half-holiday on Sunday only—than it approaches a strictly eight-hour occupation. Except then for households of such size and means that help can be organized in eight-hour shifts, the eight-hour home day means the acceptance of a thirteen-hour duration period, but within that period, reducing the actual labor to the eight-hour allowance.

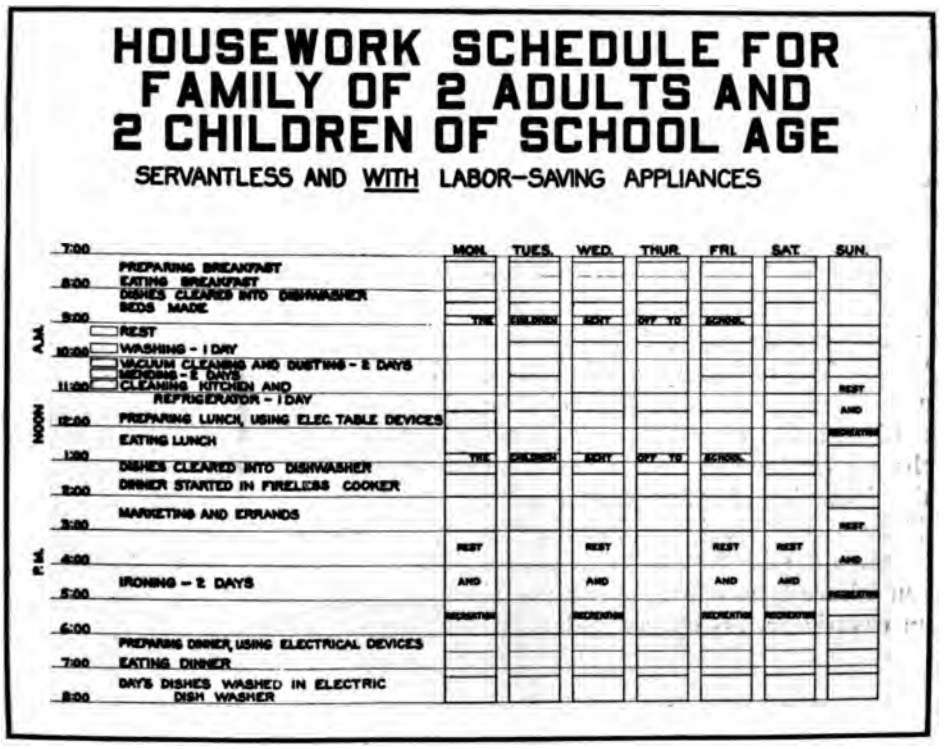
To see whether this was not only possible, but also really practicable under ordinary home-conditions in a city like New York, the Home Economics Bureau of The New York Edison Company recently arranged for a study of households, some with and some without electrical appliances, to see what actual effect these labor-saving devices had on the work of the household manager. To make the contrast of more value, a special study was made of two families, of the same size, both servantless, but one with and one without electrical appliances.

Beginning with the household where the mother was unable to avail herself of mechanical assistance, it was found that practically the entire work for a family of two adults and two school children made a working week of seventy-nine hours. At a time when industrial workers are claiming forty-four hours as a standard labor period, it seems hardly necessary to com-

ment further on a schedule of nearly double the number of working hours. During the week, the mother had almost no time for rest and recreation, until after eight o'clock at night. On Sunday though, she could secure between five and six hours for herself, receiving on that day, some assistance from her husband and children. The household work in this home included cleaning, meal-getting, mending, a little sewing, and all of the laundry, except what is usually called "flat-work," that is sheets, pillow-cases and towels. The accompanying illustration shows the week's labor of the mother under these conditions the working day averaging a little more than eleven hours.

It would undoubtedly be quite possible to find some woman of more than average strength and skill, who would be able to get through the same amount of work in somewhat less time. But in thousands of homes in this city, where electric labor-saving appliances are not employed, the working-hours of the homekeeper follow very closely those shown in the accompanying chart, especially where the children are either unable or unaccustomed to help. In circumstances like these, it seems almost as if the mother were pitting her personal strength and endurance against an unreasonable amount of work. As long as domestic labor remains a rarity, there is only one safe form of relief for such a home; either the woman can lower her standards of living, be less clean, and serve less nourishing meals—which is far from desirable—or the household must change its way of living and supply





machinery to decrease the demands on the housekeeper's time and strength.

Far more hopeful, indeed, are the results of the study of a family of two adults and two children of school-age, where the apartment was well equipped with electric labor-saving appliances. Briefly summarized, the working week of this mother amounted to sixty-two hours, a little more than an average of eight hours per day. In contrast to the household where the mother had practically no rest and recreation during the week, this woman was able to get thirteen and a half hours of freedom on her working days, as well as six on Sunday. In each case, the gross household labor period was practically the same, one woman's day extending from 7 A.M. to 8 P.M., while the other's began at 7.15. The difference lay in the ability of the second woman, assisted by her labor-saving devices, to accomplish her various tasks more quickly and with less fatigue.

It should be emphasized, however, that in the household where electric labor-saving devices were used, the home manager really did more than merely use them. She worked out a system, shown by the accompanying chart, which enabled her to use the appliances to best advantage. Thus, utilizing her dish-washer to its fullest capacity, dishes were washed only once a day, while after the other two meals, the dishes were merely scraped and placed in the washing machine. In this way, in her weekly schedule, washing of dishes and clearing up

occupied ten and one-half hours, as against sixteen in the family where the dishes were washed by hand. Furthermore, there is the added psychological benefit of being rid of "that eternal dish-washing."

Similarly, with all the other apparatus, this woman planned her work to get the best results from her machines. By frequent use of the vacuum cleaner, much of the ordinary household dusting was eliminated; a washing machine and an electric flat-iron saved nearly three hours on the weekly laundry, not to mention the lightening of a burdensome task. There was no electric mangle in this home, or still further time-saving could have been effected. By use of an electric fireless cooker and a few table appliances in the preparation of breakfasts and luncheons, this housekeeper saved nearly an hour a day; it will be noted that in both of the families concerned, a hearty luncheon was served for the children. So on through the list, by comparing the various amounts of time as shown in the two contrasting tables, the reader can see how many time and strength consuming tasks were either shortened or lightened. Again, it must be insisted, the schedule of hours here pictured does not require a woman either with the endurance of a Hercules or the skill of a household specialist, but merely a woman thoroughly accustomed to housework, and with a little systematizing ability.

Wise O M Watt

Spake Old Man Watt unto his wife:
"Don't work and worry all your life;
It's waste of strength—and what's the use
When we can buy electric juice?"

A toaster, stove and percolator,
A vacuum cleaner—nothing greater;
The Monday's wash no more brings grief—
Wrung, dried and ironed in moments brief.

The lives of Watts are now a dream,
No dirt, no muss,—the house is clean;
Just push the button, rest and smile,
While "juice" beats muscle many a mile;
Tear off a leaf and learn a lot
From out the book of O M Watt.

J E Nugent

Shantytown

BACK in the sixties—not so long ago in the life of a great municipality—our beautiful Central Park was a region of huge boulders and rolling hills. Along its western side were many dilapidated structures of the most primitive character. Some were plainly nothing but abandoned "bob tail" street cars and along the eaves could still be seen the names of the routes they traversed, "Grand Street," or "Sixth Avenue." These shacks were occupied largely by goats, children, and picturesque types of stage Irishmen. Ed Harrigan afterwards depicted this strange phase of our Metropolitan life in his play "Squatter Sovereignty." His equally famous series of "Mulligan Guard" plays showed the development of the squatter and portrayed him in more enviable surroundings as the successful contractor or politician.

Immigrants came to the locality and constructed their rude dwellings wherever fate or inclination led them. No such thing as land ownership troubled them. When the Dakota apartments were erected, current pictures of the wonderful new building showed in the foreground a large assortment of goats, the inevitable shanty and children.

When the time came to move these squatters there was naturally much disorder. They were utterly distracted when eviction measures began to

Illustrations by Courtesy Valentine's Manual

A Target Company Returning From a Days Shooting. Note the Proud Bearing of the Members Who Have Won Prizes

be enforced. It was something beyond their comprehension. In many cases physical force had to be employed and for a while the conditions resembled civil war on a diminutive scale. It was unsafe for a stranger to invade the sacred precincts of Shantytown. With the opening of streets, and the appearance of cars and other evidences of advancing civilization, the squatters on both sides of the park were more easily moved. But in the park itself the struggle was fiercely contested and many a hard fought battle between the police and the irate denizen took place ere final eviction was an accomplished fact.

This was undoubtedly a most remarkable era in the development of our city. We have become used to reading of similar scenes in other countries, but it has probably never occurred to us that practically the same scenes were being enacted at our own doors. There were many pathetic scenes attending those evictions and doubtlessly much genuine sorrow. And even to the last, the enforcement of the law seemed to these poor families a piece of heartless cruelty.

Yet the change was of incalculable value. The children especially benefited. Education in the public schools replaced the isolation of Shantytown and the children were forced into contact with the progressive and growing spirit of the city and soon became an active and desirable part of the younger generation. This chapter in our development reads to the average New Yorker like a fairy tale or a story of a foreign land. The most astonishing thing about it is that there are still so many persons living in New York who have seen the scenes, just described and who remember the pictures which appeared frequently in the weekly papers portraying the progress of cleaning up Shantytown. It is these marvelous changes that have made this old Vanishing City of ours so bewildering, so fascinating and so altogether adorable.

About this same period there existed another peculiar institution that has almost disappeared—the Target Companies. There was considerable formality in these organizations in one particular—the matter of dress. Each member had to wear a regulation uniform—peak cap, blue flannel shirt and navy blue trousers with black boots. On Thanksgiving morning these various companies gathered at their headquarters—usually the second floor of some dwelling house lately turned over to business. The rent for these headquarters and the expenses for other necessary incidentals usually came from the local alderman, or from any resident of the neighborhood cherishing thoughts of a public career.

View of Second Avenue Looking Uptown From Forty-second Street

A Squatter Colony Near Central Park

Headed by a band, the company would proceed to call on all the stores or private houses, the owners of which were likely to show their appreciation of the honor by contributing a prize, or some money to defray expenses. A member of the company always walked in front with a long pole studded with nails at short intervals. This pole was used to display the various prizes donated—silver cups, table ware, beer mugs, and so forth, and when it was completely decorated, the target company, with a wild flourish by the drum major, and a blast from the band, would start uptown for Lion Park or Jones Wood, there to make a West Side Holiday that would make the much vaunted Roman Holiday look mild indeed.

In the evening the return of the holiday makers was a great event. They had been shooting all day but in some miraculous manner they were only half shot at night.

The whole neighborhood turned out to greet its heroes. Red fire, Roman candles and various fixed pieces were set off to celebrate the safe return from what was really a dangerous ordeal. Behind the marchers, was carried a huge calcium light and its brilliant effulgence lighted up the gloomy streets with a strange and wonderful brightness.

There is little in Central Park today, or in any of the adjacent streets to suggest to the visitor, the tumultous times of half a century ago. The rolling hills and the boulders are still there, their quiet nooks providing a welcome retreat from the bustle and turmoil of the busy city beyond. Looking down on this restful scene are the great apartment houses and hotels on the west and south and the dwellings on the east.

And at night the quiet waters of the lakes reflect the myriads of lights from the buildings, the avenue, and the paths of park. A million lights reflected in the waters that half a century ago saw no other light but that of an occasional lantern as some night prowler picked his way among the boulders to his shanty home.

The Interplanet Party Wire

We lifted up a tower
To signal to the stars;
At last we sent a message
That reached the planet Mars;
But Mars returned no answer—
Indignant, I opine,
When signalling to Venus,
To find us on the line.

Jean Olive Heck

Photograph by The New York Edison Company

The New Branch Office of the Western Union Telegraph Company at 38-40 Broad Street. Many New Buildings Are Being Erected and Old Buildings Remodeled in New York's Great Financial District. This Building Will Use Edison Service

Photograph by The New York Edison Company

The Bennett Building at 93-99 Nassau Street, One of the Older Generation of Office Buildings, Has Recently Decided to Abandon its Private Plant in Favor of Central Station Service

Still at It

EIGHT years of service is something to be proud of. Any builder of motor trucks whose vehicles began operation as long ago as that is quite justified in heralding it broadcast, for it is generally felt that a truck wears itself out in four or perhaps five years.

Of the 3500 electric trucks now in operation in New York, 1285 have records of eight years or more. Such a record of service is something that the electric vehicle industry may well point to with pride. In fact the glory of the eight year olds is dimmed only by the glory of the electrics of still greater age. If an eight year old electric is something to talk about, what is to be said of a ten year old. There are 395 in this class, while the ages of the others run all the way to twenty-one years.

There are five vehicles that attained voting age this year, twenty-five that are seventeen years old, seventy-four that are fifteen years old and 132 that have been in operation for thirteen years.

Back of these more or less dry figures are many interesting stories of electric truck operation.

Twenty years ago the derisive shout of "git a horse" from the street gamin was the signal for pedestrians to line the curb to watch a "horseless carriage" go by. And down the street came a strange vehicle, propelled by its own power,—electric power. It was a prophecy of the great automobile industry that was to follow.

Photograph by The New York Edison Company

These Five Trucks Were Installed by the Columbia Storage Warehouse Co. During 1910, 1911 and 1912. They Are Still At It, And Are Rendering Service That Is Satisfactory In Every Way

Photograph by The New York Edison Company
The Berlin-Jones Truck Has Stood Up Under Years of Hard Usage in the Delivery of Heavy Paper

At that time self-propelled vehicles were in the development stage, and their economic importance was so lightly considered that it was several years before the state established a license bureau to keep track of them. Before such a bureau was organized each automobile was given a number and because automobiles were so few, the renewal of licenses was not required.

Although the automobile experienced vicissitudes in common with all other new developments, the real difficulty with the "horseless carriage" was the ignorance of the operator, of things mechanical. The oldest fleet in existence, that of the Gorham Company, would have died in its infancy had not the manager, noting this lack of knowledge, made a special effort to instruct his men in the care and operation of their vehicles. He thus not only avoided mechanical difficulties, but increased the delivery range of his trucks. The maximum trip in 1899 was from the garage on 19th Street to 42nd Street. An attempt to extend the route before the educational program had been started was to invite trouble and an ignominious return behind "old Dobbin." After the new system had been in effect a short time the trucks were driven to 59th Street and very shortly afterward, deliveries to Harlem became a regular thing. These old trucks are still at it, and under their present capable management their days of usefulness seem without end.

There are many other old time electric vehicles which today are familiar sights as they make their daily deliveries around the city. Mr. Keating of the Berlin and Jones Company, manufacturers of envelopes and gummed labels, grows reminiscent when he relates the history of a General Vehicle truck that was placed in service in 1905. This truck has been so satisfactory that another electric was soon purchased and recently two more were ordered. The old truck has been bruised and battered by years of rough usage but it still averages twenty-five miles a day, carrying three thousand pounds every trip. As it frequently makes four trips, the truck transports twelve thousand pounds a day. Nor is its daily toil always ended at nightfall, for the Berlin and Jones Company operates two sets of batteries, charg-

Photograph by the New York Edison Company
This Electric, Installed in 1913, is Still On the Job and Has Been Joined By Four Others

ing one while the other is being used. The company finds this interchange of batteries advantageous in another way in that one battery can be inspected carefully every day while the other is in service. The old truck has often made a trip from the West 27th Street factory to Newark and return and, with a boost, has made a down-town trip in New York as well in the same day.

The Macy Veteran

R. H. Macy & Company experimented with one Lansden in 1904 and after a thorough trial enlarged their fleet to eighteen in 1907. And every day for these many years the electric delivery wagons have averaged from thirty-five to forty miles. They are practically in their original form except that the motors were changed recently to conform to a different type of battery. As much as fifty-five miles has been attained with these cars without a boost. Asked as to their performance during the recent storm which so demoralized traffic throughout the city, Mr. Hebron, the superintendent of the fleet, merely shrugged his shoulders and remarked, "They have been out every day and we have experienced no serious difficulty."

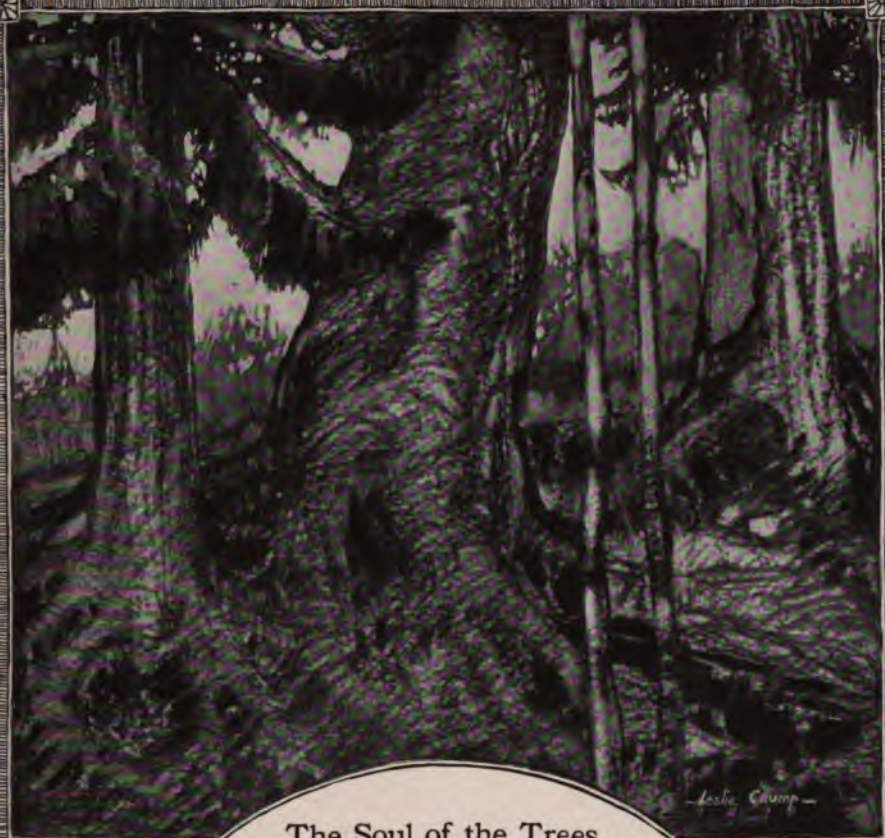
Seven years of uninterrupted electric truck service has been the experience of the Henry Dix Co., manufacturers of uniforms. A two-ton truck handles half the shipping of this firm, taking care of all the goods received from the factories in New Jersey. This amounts to something over two thousand cases yearly. In addition, the electric truck handles five hundred cases of piece goods which average from three to six hundred pounds a case. Mr. Frank of the Dix Company states, "We have had wonderful success with the electric truck."

John Blumer & Brothers, dealers in butter and eggs and dairy products, laid the foundation for their present electric truck fleet of eight vehicles when they purchased two cars eight years ago. These storage battery automobiles have performed satisfactorily, averaging twenty-five miles daily, six days of the week. Mr. John Blumer, Jr., said that "for short hauls with many stops the electric truck is the best. He also considers that the cleanliness of the electric vehicle makes it especially valuable for transporting food stuffs. The trucks are loaded to capacity summer or winter alike.

Equally interesting is the record of first Coca Cola truck. It was installed in 1913 to make deliveries to the parks, to the baseball fields and to Coney Island. It is still working every day and has been joined by four others.

For ten years the electric truck of The Cauldwell Fixture Company has averaged over 5,000 miles a year. Today this truck is giving just as efficient service as the day it was placed in service.

Throughout the city there are many more electric vehicles that have rendered long terms of service and whose period of usefulness still seems without end. They will be found in practically every line of business, for there is no material too heavy and bulky and none too light and fragile to be handled speedily and economically by the electric truck or delivery wagon.



The Soul of the Trees

They lived in a valley ages ago,
The oak, the pine and the mistletoe—
Fair and green they used to sway
In the summer wind that came to play.

The pine tree reared its graceful length,
The oak spread out its rugged strength,
And the south wind whispered soft and low,
To its clinging child, the mistletoe.

All that was dead proclaimed "we die";
But all of the Living, low and high,
By some strange instinct seemed to feel
That life was lasting, life was real.

The old oak said—"Our souls shall be,"
"We live again," said the tall pine tree,
"And something in me seems to know
That we shall rise," said the mistletoe.

The pine tree stretched its graceful length,
And the great oak fell in all its strength,
Beneath them buried deep and low
Was the hopeful plant, the mistletoe.

Then up from its grave of coal and clay
A wonderful spirit rose one day;
Found sluggish wheels and made them spin,
Caught seeking voices through the din.

Sought out the blind and gave them sight,
Guided the wanderer through the night;
With magical hand it lifted each load;
In mansion and hovel its warm light glowed.

"Whence comes this strength, this heat and power?"
Asked Youth of Age one evening hour.
" 'Tis the soul of trees that used to grow:
The oak, the pine, and the mistletoe."

T M Bray

Photograph by The New York Edison Company

Electric Percolators, Samovars, Chafing Dishes and Grills Are Here Displayed in an Attractively Arranged Showcase. This is But One Detail in the Pleasing Interior of the Manhattan Electrical Supply Company, Inc., at 110 West 42nd Street

Photograph by The New York Edison Company

That Cleaning Can be Done Satisfactorily by Electricity is Evident in the Kinds of Electrical Cleaning Devices Sold by the Manhattan Electrical Supply Company, Inc. Dishes Are Washed and Dried by the Use of the Electrical Dish Washer, Dust and Dirt Are Removed by the Use of the Electrical Vacuum Cleaner; a Family Washing is Done by the Electrical Clothes Washer; and Each Device Requires Only a Minute Amount of Electrical Power

Manufacturers and Agents (Continued from Page 100)

Motors

General Uses (Concluded)

Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
Livingston J & Co—104 E 41st St
MechanicalApplianceCo(Watson)—39Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Motors Co—149 Broadway
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wald Electric Motor Co—40 W 4th St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Bohn C C Electric Co—820 Sixth Ave
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const &Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—145 East 18th St
Cutter F B Co—50 Church St
Eisenberg General Con Co—149 Grand St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Manufacturers Equipment Exchange—Lafayette and Prince Sts
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Electrical Repair Co Inc—240-242 West 25th St
Florandin & Co Chas H—110 West 40th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St

Signs Electric

Bofinger Bros—146 East 42dSt
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L (Flexlume Sign Co)—560 Seventh Ave
Universal Elec Stage Lighting Co (Kliegl Bros)—240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 ChurchSt
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1123 Broadway

Specialties

Betts & Betts Corp (Fuses-Refillable)—511 West 42d St
Bonnell Elec Mfg Company (Construction)—192 Chambers St

Manufacturers and Agents (Concluded)

Specialties (Concluded)

Bromley-Merseles Mfg Co (Elec Glass Washers) —1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes) —114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Household Service—21 E 40th St
Duntley Products Sales Co—295 Fifth Ave
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—321 Madison Ave
United Electric Company—321 Madison Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St.
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanax Co Inc The—125 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900 (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washer —11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—42 East 23rd St.
Lightolier Co—569 Broadway
Laun-Dry-ette Sales Co—36 W 37th St
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co (Geyser —35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)-119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Killoch David Co—57 Murray St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Nugent Electrical Supply Co—7 W 29th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 196—M Zuckman
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Grand St 149—Eisenberg General Con Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Varick St 203—Riccio Electrical Contractors
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 141—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Wiring and Installation Contractors (Continued)

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1168—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 9th St 320—Endig Electrical Works
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—Wm Fredericks
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 18th St 145—Belyea Company
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker Electric Co
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
Broadway 1409—A & A Electric Co
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co
Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Madison Ave 407—Manhattan Elec Cont Co
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 605—"B" Electric & Hardware Co
Third Ave 731—Metropolitan Electric Co
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
East 95th St 156—Edward Zenker
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
East 125th St 163—F J Rush

Wiring and Installation Contractors (Concluded)

Park Ave 1630—Wimple Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 152nd St—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 11½— S W Mills
East Fordham Road 273—Endig Elect Works
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barclay St 109—Spilger Electric Co
Barrow St 25—Jos Torre
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beekman St 96—Naumer Electric Co
Bleecker St 13—Schwartz & Blumengarten
Bleecker St 122—A Epstein
Broad St 39—Beaver Electric Co
Broad St 68—Broad Equip Co of N Y
Broad St 122—Stewart-Dickson & Co Inc
Broadway 1—William Vautin
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Electric Co
Broadway 302—Harry Weinstock
Broadway 335—Monowatt Elec Import Co
Broadway 371—Rabinowitz & Kluger
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 435—Radiant Electric Lmp Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broadway 652—New Era Appliance Corp
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 243—Van Ben Thuysen Robt Co Inc
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 392—Welsbach Gas Lamp Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 196—Max Zuckman
Centre St 231—Worth Electric Co
Chambers St 101—Broadway Hardware Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Chatham Square 2—Louis Abrahams
Church St 30—Wm Braun
Church St 30—H P Copeland
Church St 30—P A McGuire
Church St 50—F W Collins
Church St 50—Standard Drug Co
Church & Vesey Sts—Metropolitan Hardware Co
Cleveland Pl 25—Globe Electric Co
Cooper Square 10—Philip Addison
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 38—Fred Kraft Inc
Cortlandt St 39—W S Broadhurst
Cortlandt St 42—Terminal Cycle & Sporting Goods Company
Cortlandt St 70—W R Pabst
Cortlandt St 84—Bleyle Electric Co
Cortlandt St 86—A E Gelling

Authorized Mazda Lamp Agents (Continued)

Dey St 48—John J Leahy
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 52—Flitner Atwood Co
Front St 62—William E Williams
Front St 124—Charles Davidson
Front St 162—W S Pendleton Jr & Co
Front St 194—E George & Co
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—David Perlman
Fulton St 110—Marlen Hdwe Co
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Fulton St 248—Williams & Wells Co
Gold St 46—Van Axen Elec Co
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 211—Interborough Lighting FixtureCo
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 185—Weyant Electrical Supply Co
Greenwich St 255—G M Ross
Greenwich St 293—King Electric Const Co
Greenwich St 460—A F Beckman & Co
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 84—Alfred Whiteley Inc
John St 99—T Frederick Jackson Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 95—John W Hooley
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Chas W Osburg Co
Liberty St 120—Welborne & Co Inc
Liberty St 123—Smith-Meeker Eng Co
Liberty St 126—Thomas & Johnson
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 91—Weber & Jones
Mott St 44—Quong King Long Co
Murray St 23—Stanley & Patterson
Murray St 37—Fensterer & Ruhe
Murray St 43—Conlan Electric Co
Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 140—Reid-Yeomans & Cubit Inc
Nassau St 145—N Y Supply & Inspection Co
Nassau St 154—Minato Honga Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 15—United Adjustment Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 35—Henry A Kissel & Co
Pearl St 39—Commercial Construction Co
Pearl St 119—Kelting Electric Co
Pearl St 550—E B Latham & Co
Prince St 44—Louis Iorio
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 81—H & F Metzinger
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Sullivan St 29—Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Varick St 203—Riccio Electrical Contractors
Vesey St 59—L Gabler & Son
Vestry St 35—Northwestern Electric Equip Co
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 97—Wm E Glaeser
Warren & Church Sts—Perlman Auto & Cycle Supply Co
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
West Broadway 176—O M Matzen
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 491—Acme Machine&MotorCo
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West Houston St 20—Stein Manufacturing Co
West St 90—Peters & Peters Inc
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
White St 39—Wm Rouguett
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
Wooster St 33—Paul Silverstone
Wooster St 176—Jos Kerne

East Side District

Avenue D 2—The New Interboro Electric Co
Avenue D 53—Barnett Rosenberg
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Fix Co
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 273—Beacon Sales Co

Authorized Mazda Lamp Agents (Continued)

Bowery 283—Dulberger Sup Co
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—Pioneer Lighting Fixture Co
Broome St 327—N Y Gas Light Co
Clinton St 91—A Z Electrical Supply Co
Delancey St 84—Frank Silverman
Delancey St 102—Rubin Bros
Delancey St 188—Louis Boritz
Division St 87—Soffen Brothers
Division St 133—Lincoln Cont Co
East Broadway 88—Minkowitz & Cohen
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 93—I Berkowitz
East Houston St 170—D Stein
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 36—Max Leaf
East 4th St 69—Eastern Electric Works
East 4th St 75—Charles Lipschultz
East 4th St 128—Isadore Schajowicz
Essex St 62—Public Elec Supply House
Essex St 172—W Katz
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 142—J Zucker
Forsyth St 182—Ben Goldberg
Henry St 121—James Drucker
Ludlow St 69—Chas I Silberman
Ludlow St 144—Louis Yuster
Monroe St 11—Anglo Amer Elec Co
New Chambers St 4—Louis Purcaro
New Chambers St 22—Clover Electric Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Pike St 30—Freeman Bros
Rivington St 265—M Franzblau
Second Ave 73—J Brown

Irving Place District

Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1133—Electrical Consumers Adjustment Corporation
Broadway 1155—Empire Electric Co
Broadway 1161—Antler Elec Co
Broadway 1168—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 9th St 43—Superior Elec Co
East 10th St 30—Spero & Cohen
East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 13th St 34—A L Todd
East 14th St 7—William Landau
East 14th St 10—Acme Electric Co
East 14th St 10—Automatic Awning Control Device Corp
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 17th St 18—Metropolitan Elec Lamp Co
East 22d St 18—Consumers Elec Lamp & App Co
East 22d St 27—Charles Elec Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 28—A Marchard
East 23rd St 131—Chas Besler & Co
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—William Fredericks
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 378—Wm Purdy
Fifth Av 63—Edison Lamp Service Co Inc
Fifth Ave 75—H M Walter
Fifth Ave and 26th St—Park & Tilford
First Ave 312—A Koppeman
Fourth Ave 108—I Gluck
Fourth Ave 110—B H Turecan & Co
Fourth Ave 121—Borough Elec Co
Fourth Ave 125—A Wangerin
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 130—Goldberg & Rubenstein
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Seventh Ave 182—Finkelstein Bros
Seventh Ave 189—E Christensen
Seventh Ave 219—Subway Hardware Co
Seventh Ave 227—The Little Electric Co
Seventh Ave 243—Keppler Bros
Seventh Ave 296—B Adler
Sixth Ave 164—McGeady Electric Co
Sixth Ave 182—Chas H Bingler
Sixth Ave 183—M A Karp
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—Acorn Electric Cont Co
Tenth Ave 239—I P Frink Inc
Tenth Ave 246—Robert F Hitchman
Third Ave 182—Metz-Solars & Co
Third Ave 184—Henry Green
Third Ave 238—G & P Elec Supply House
Third Ave 384—D B Pershall & Son
University Pl 50—Standard Elec & Repair Co

Authorized Mazda Lamp Agents (Continued)

Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 54—Radice Electric Co
West 13th St 107—Dale Ltg Fix Co
West 13th St 408—Bullock Mfg Co
West 14th St 41-3—Sam Frost
West 14th St 2—Raphael, Morris & Co Inc
West 14th St 131—Harry J Mabs
West 14th St 132—Acme Lighting Fixture Co
West 14th St 232—Wm H Crary
West 14th St 310—Monroe Lamp Co Inc
West 14th St 524—Chelsea Eng Sales Co
West 15th St 22—Simes Co
West 16th St 4—Central Elec Supply Co
West 16th St 111—E Korkes
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 21—Rambam & Rosenberg
West 17th St 44—Rambeau & Sheflin
West 17th St 48—Beidner Elec Co
West 17th St 102—Perlman Elec Co
West 17th St 105—Manhattan Elec Ltg Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 42—Harry A Hanft
West 17th St 227—Lighting Eng Service Co
West 19th St 25—Horowitz & Leff
West 19th St 40—Lewis Harbitter
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 27—Import Sales Co
West 20th St 120—Reliable Sewing Machine & Electric Co
West 20th St 241—Reliance Electric Inspection Co
West 21st St 9—Ferber Electric Co
West 21st St 66—D C Electric Co
West 21st St 1 7—Morris Gika
West 21st St 162—Chelsea Elec Motor Rep Co
West 23rd St 235—Eastman Kodak Co.
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Goodman Jablon
West 24th St 105—Samuel Vogel
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1215—B W Glick
Broadway 1288—Electro Magnet Co
Broadway 1358—Siems & Co
Broadway 1368—Arrow Electric Shop Inc
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1416—H R Lockwood Co
Broadway 1476 Suite 1013—American Electric Construction Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
Broadway 1743—Times Square Auto Sup Co
East 29th St 34—Albin Gustafson Co
East 29th St 41—S H Kline
East 30th St 2—Simpson Electric Co
East 32nd St 19—R E Leve
East 38th St 151—Sussman & Sussman
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 41st St 104—J Livingston & Co
East 42nd St 18—Herbert & Huesgen Co
East 42nd St 146—Bofinger Bros
East 42nd St 236—H F Electric Co
East 42nd St 239—Hudson Elec Eng Co
East 44th St 57—G E Walter
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 17—Black & Boyd Mfg Co
East 48th St 201—Tiedelmann & Bohrer
East 57th 206—Paul F Weinbeer
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
East 59th St 241—S A Ecker
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 417—Underwood & Underwood Inc
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Building—Concourse Electric Shop
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave 331—Herz Pharmacy Co
Lexington Ave 581—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Lexington Ave 769—Colonial Gvt & Elec Cont Co
Madison Ave 275—Walsh Electric Supply Co
Madison Ave 361—Tiffany Studios
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 619—Frankle Alffias
Madison Ave 631—Kellog & Bertine
Ninth Ave 604—Geo Unsold

Authorized Mazda Lamp Agents (Continued)

Ninth Ave 610—Pisch Elec Sign Co
Ninth Ave 630—Nathan Marks
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Second Ave 1111—New Bank Elec Supply Co Inc
Seventh Ave 358—Bazaar Franko American
Seventh Ave 468—Bank Elec Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Seventh Ave 729—Howell's Cine Equipment Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 636—Fred B Zender
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & CoInc
Sixth Ave 947—JohnW Flint
Sixth Ave 1009—John T Whitehead
Sixth Ave 1093—Mt Morris Auto Sup Sta
Tenth Ave 486—Geo E Valley & Bro
Tenth Ave 672—J G Gloecker
Tenth Ave 755—H F Lutters
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 444—Fred Hardy
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 497—Manhattan Hdwe & Tool Corp
Third Ave 518—Davis Bros
Third Ave 605—"B" Electric & Hdwe Co
Third Ave 631—Chelsea Electric Co
Third Ave 647—Julius Gabler
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co
Third Ave 918—Sidney Frey
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 128—Joseph Gershon
West 30th St 151—Alpha Electric Co Inc
West 30th St—Jaffer Electric Co
West 31st St 23—Louis Freund
West 31st St 24—West Side Elec & Tinsmithing Company
West 31st St 28—West Side Electric & Tinsmithing Co
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 32nd St 110—C. G. Willoughby
West 32nd St 130—W F Irish Co
West 33rd St 221—E J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 248—Knapp Ritzner Co Inc
West 35th St 419—Gordon & Koppelson
West 36th St 126—Metropolitan Elec Sup Co
West 37st St 55—Eagle Electric Co
West 37th St 58—Roesser Studios Inc
West 38th St 47—Samuel Jawitz
West 38th St 66—Herald Lamp Service
West 40th St 105—Publicity Clock Co
West 40th St 143—Smith Elec Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 103—Teale Supply Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buchmann Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 442—Sharlow Bros Co
West 42nd St 529—Park & Tilford
West 44th St 75—Times Sq Elec Lp Co
West 44th St 314—Display Stage Ltg Co
West 45th St 145—Ohio Elec Co Inc
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 47th St 102—Rand Electric Shops
West 48th St 304—Joseph Beck
West 47th St 310—H J McKinnon
West 48th St 168—Progressive Poster Exchange
West 48th St 244—M Schweiger & Co Inc
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52nd St 136—Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 301—Rialto Electric Shop
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 302—Cross Electric Lamp Co
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson

Authorized Mazda Lamp Agents (Continued)

East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 149—L Segalbaum
East 84th St 158—Gabriel Erdos
East 86th St 148—Rose Electric Co
East 86th St 341—L S Metzger
East 95th St 156—Edward Zenker
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1461—Fuld & Fuld
First Ave 1576—Joseph Corak
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1248—Oliver Elec Spec Co
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1182—DoWell Elec Co
Madison Ave 1519—Jacobson & Feldherr
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Contr Co
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1526—Wm Rosenberg
Second Ave 1629—Nathan Eisenberg
Second Ave 1828—Zoltan Hartmann Elec Co
Second Ave 1838—P Stein
Third Ave 1011—J M Kohlmeir
Third Ave 1055—F Gretzer's Sons
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Jas Gear
Third Ave 1286—F & B Electrical Co
Third Ave 1298—J Rappaport
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1545—N W Altman Co.
Third Ave 1636—Benjamin Phillips
Third Ave 1658—Electrical Maintenance Co
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 97—Max Weiss
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 326—I H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—B Murphy
Amsterdam Ave 941—Julius C Belmonte
Amsterdam Ave 943—P T Dunn
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Markle Hardware Co
Amsterdam Ave 989—Marcus & Klein
Amsterdam Ave 1084—Samuel Garnter
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1641—Gold Rose Hardware Co
Amsterdam Ave 1814—Louis Flato
Amsterdam Ave 2232—Samuel Greenberg
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1834—Trop Specialties Co
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1987—King Tire Co
Broadway 2104—Modern Ltg Co
Broadway 2142—C B Montagriff
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2299—M J Kane Inc
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 112th St—Park & Tilford
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3181—Dorb Drug Co
Broadway 3906—M Lewis Inc
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 26—Magneto Elec Generator Co
Columbus Ave 144—E May Inc
Columbus Ave 171—N Vincenzi
Columbus Ave 189—Budnick Bros
Columbus Ave 196—Columbus Elec Co
Columbus Ave and 72d St—Park & Tilford
Columbus Ave 220—T F Carr
Columbus Ave 283—M Appel

Authorized Mazda Lamp Agents (Continued)

Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—Alexander C Paterson & Son
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Sup Store
East 112th St 173—Behl Electric Co
East 113th St 21—Modern Elec Cont Co
East 115th St 58—M S Rosenfeld Bros
East 116th St 85—Prompt Elec Ser Co
East 116th St 204—Empire Gas & Elec Fix Co
East 125th St 163—F J Rush
Eighth Ave 2073—Phil Epstein
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2441—A E Jackson
Fifth Ave 1410—S J Eisner
Hancock Place 3—Progressive Electric Co
Lenox Ave 22—Morris Perla
Lenox Ave 151—Louis Saphier
Lenox Ave and 126th St—Park & Tilford
Lenox Ave 346—Herman Young
Lenox Ave 394—S. Lichtenstein
Lenox Ave 403—Lenox Elec Co
Lenox Ave 468—Frank & Meyers
Lenox Ave 603—Herman Pinkiert
Lexington Ave 1855—Shane Electric Co
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1889—Gristede Bros Inc
Second Ave 2236—A Freeman
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 1121—Arrow Elec Shop Inc
St Nicholas Ave 1322—A Chapoff
St Nicholas Ave 1368—Le Mar Supply Co
St Nicholas Ave 1422—Manhattan Lamp Service Co
St Nicholas Ave 1511—I Selly
St Nicholas Ave 1599—Elec Appliance Shop
St Nicholas Ave 1617—Henry Green
Third Ave 2098—Iron Spec Co
Third Ave 2352—Chas Mann & Co
West End Ave 165—F W Astarita
West 61st St 16—Asch & Co Inc
West 66th St 161—Leo Strus
West 70th St 104—Samuel Moses
West 70th St 236—S A Friedman
West 72nd St 172—John B Campbell
West 72nd St 176—Kaufman & Burkert
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 118th St 430—Morningside Elec Supply Co
West 125th St 125—I Davega, Jr
West 125th St 125—L Davega Inc
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—E A Briggs
West 125th St 215—M J Heller Elec Co
West 126th St 301—C O Alberga & Co
West 127th St 602—James Cunneen
West 135th St 107—C M Moten

Bronx (Melrose District)

Boston Road 1168—N Goldman
Boston Road 1304—Mayo Lighting Fixture Co
Brook Ave 172—S Dworkin
Brook Ave 520—M Goldman
Burnside Ave 4—F B Electric Co
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 142nd St 781—Wilson Maeulen Co
East 149th St 358—Weber Supply Co
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 448—A Dessner
East 152d St 726—Joseph B Josephson
East 152nd St 739—Gustav Abramowitz
East 152nd St 835—J Lowe
East 153rd St 404—Joseph Mancusi
East 160th St 770—Jacob Garten
East 161st St 615—J F Smith
East 163rd St 736—Sayles Electric Co Inc
East 163rd St 965—Isidor Schohan
East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—M Finklestein
East 167th St 460—M Schwarzler
East 169th St 535—B Weiss Electric Co
East 169th St 638—Max Berminer
East 169th St 936—Mathew Sussman
East 177th St 1753—C H Wallace
Forest Ave 947—Ed Gorodess
Freeman St 860—Sidney Cannold
Freeman St 879—L Drescher
Hunts Point Ave 895—Max Maged
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Intervale Ave 1008—B G Roeber
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 950—Louis Gladstein
Longwood Ave 972—Adolph Greenblat
Melrose Ave 776—Ed O Steinoch
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mahler Electric Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss

Authorized Mazda Lamp Agents (Concluded)

Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1308—Louis I Waldman
So Boulevard 1319—Jacob Katz
So Boulevard 1327—A Dressner
St Ann's Ave 342—S Wishnevsky
Stebbins Ave 1142—Walshin Bros
Teller Ave 899—George Venney
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2718—A L Biltchick
Third Ave 2744—S Spiero
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Gurland
Third Ave 3151—We Lektrify U Corp
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3808—Adolph Siegel
Union Ave 673—R J Atherly
Union Ave 767—Henry Cohen
Washington Ave 937-1037—M Regelson
Washington Ave 1226—Leopold Altman
Washington Ave 1631—Yorkville Elec Fix Co
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 796—Kessler & Steinman
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Elec Shop Inc
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Westchester Square 134—D S Robinson
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias
Willis Ave 478—M P Weintraub

Bronx (Tremont District)

Audubon Ave 335—Wm Ward
Boston Road 1360—Joseph Leckart
Boston Road 2017—H Von Hadeln
Claremont Pkway 505—Claremont Elec Co
Clinton Ave 2117—Wm H Blank
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co
East Fordham Road 338—H & M Bloom
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 575—Nonpareil Gas & Elec Co
East Tremont Ave 755—Becker Bros
Tremont Ave 855—Boris J Medove
East 180th St 350—Philip Klein
East 180th St 554—A Feig
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 183rd St 68—Ace Electrical Co
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East 233rd St 343—Joseph Reda
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2376—W W Electrical Co
Jerome Ave 2423—J Wollak
Kelly St 1015—G & M Electric Co
Morris Park Ave 685—M W Smith
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
Park Ave 4206—Hugh J Casey
So Boulevard 1881—Louis Flatau
So Boulevard 1941—Abraham Herman
Thieriot Ave 1269—Thieriot Radio & Elec Co
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4197—Adolf Birnbaum
Third Ave 4239—Northern Gas & Elec Fix Co
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2601—Eli Ancowitz
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2775—Rudd Bros
Webster Ave 2787—Fordham Elec Supply Co
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 181st St 553—George Hunter
West 231st St 165—Louis Grossman

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway Office—424 Broadway
East Side Office—124 Essex St
Irving Place Office—10 Irving Place
Forty-second Street Office—124 West 42d St
Eighty-sixth Street Office—151 East 86th St
One Hundred and Twenty-fifth Street Office—15 East 125th St
Bronx (Melrose Office)—362 East 149th St
Bronx (Tremont Office)—Tremont and Monterey Aves

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

Commercial Trucks

Commercial Truck Co of America—405 Lexington Ave
Couple Gear Company—11th Ave & 30th St
Lansden Company—229 West 42d St
Oneida Truck Co—505 Fifth Ave
Walker Vehicle Co—(General Vehicle Co) Grand Central Terminal Room 3709
Ward Motor Vehicle Co—Grand Central Terminal Room 5736

Industrial Trucks

Automatic Transportation Co—258 Broadway
Baker R & L—17 Central Park West
Buda Company—136 W 55th St
Cowan Truck Company—103 Park Avenue
Crescent Truck Company—30 Church St
Ellwell Parker Company—50 Church Street
Hoagland Thayer Company—300 Washington Street Newark
Hunt C W Inc—140 Nassau Street
Industrial Truck Company—103 Park Avenue
Karry-Lode Industrial Truck Co—Grand Central Terminal
Koppel Industrial Car & Equipment Co—30 Church St
Lakewood Engineering Co—139 Centre St
Lansing Company—492 Broome St
Mercury Manufacturing Co—25 Cuhrch St

Passenger Cars

Detroit Electric Car Co—20 Central Park West
Healy Coach Company—1662 Broadway
Rauch & Lang Inc—17 Central Park West

Storage Battery Charging Apparatus

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Northwestern Electric Co The—1457 B'way
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Witherbee Storage Battery Co.—643-9 West 43rd St.

Electric Garages

For Storing and Charging in New York City

Commercial Cars

Acker Merrall & Condit Co—532 West 46th St
Brunswick Garage The—474 West 130th St
Doelger Peter—407 East 55th St
Edison Storage Battery Co—247 West 35th St
Exide Battery Depots Inc
West Side Garage—529-41 West 23rd St
East Side Garage—141 East 25th St
North Side Garage—West End Ave & 64th St

Passenger Cars

Electric Garage The—Central Park West & 62nd St

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way

Manufacturers and Agents (Continued)

Mechanical and Battery Parts (Concluded)

Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St
Witherbee Storage Battery Co—643 W 43d St

Buffers—Polishers

Barker John H—95 Liberty St
Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave.
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway
Western Electric Co—151 Fifth Ave and 105 W 40th St

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Conveyors

Alvey Ferguson Co The—110 West 40th St
Alvey Manufacturing Co—105 West 40th St
Brown Portable Conveying Machinery Co—30 Church St
International Conveyor Co—50 East 42nd St
Jeffrey Mfg Co The—50 Dey St
Lamson Co The—15 West 44th St
Mathews Gravity Carrier Co—50 Church St
Robins Conveying Belt Co—13 Park Row
Rownson, Drew & Clydesdale Inc—68 William St
Standard Conveyor Co The—227 Fulton St

Cranes, Hoists and Winches

Alfred Box & Co Inc—Woolworth Building
Alliance Machine Co—Alliance Ohio (No New York Office)
American Hoist & Derrick Co—50 Church St
Brosius Edgar A—Pittsburgh Pa (No New York Office)
Brown Hoisting Machinery Co—50 Church St
Browning & Co Victor R—480 Lexington Ave
Champion Engineering Co The—149 Broadway
Chesapeake Iron Works—Woolworth Bldg
Cleveland Crane & Engineering Co—50 Church St
Clyde Iron Works—141 Centre St
Hayward Co The—50 Church St
Heyl & Patterson Inc—90 West St
Industrial Works—50 Church St
Lidgerwood Mfg Co—96 Liberty St
Link Belt Co—299 Broadway
Maine Electric Co—26 Cortlandt St
Manning, Maxwell & Moore Inc—119 W 40th St
McMyler Interstate Co The—50 Church St
Mead Morrison Mfg Co—149 Broadway
Michener Stowage Co—17 Battery Place
New Jersey Foundry & Machine Co—90 West St
Northern Engineering Works—120 Liberty St
Shepard Electric Crane & Hoist Co—30 Church St
Sprague Electric Works—527 West 34th St
Terry Mfg Co Edward F—Grand Central Terminal
Wellman-Seaver-Morgan Co The—50 Church St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electric Corporation (Rapid Dish Washer) —119 W 42d St
Livingston, J & Co—104 E 41st St
Phillipson Emil—110 W 40th St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St

Drills and Grinders (Portable)

Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa 47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf) —303-305 Fifth Avenue

Manufacturers and Agents (Continued)

Electro-Therapeutic and Dental Apparatus (Concluded)

Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Morison Electric Supply Co—15 E 40th St
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway (lamps only)
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanitax Elec Co—143 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
Electrical Repair Co Inc—240-242 West 25th St
Elevator Supplies Co Inc—1515 Willow Ave Hoboken N J
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)
Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Revolvator Company—Jersey City N J
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Watson Elevator Co—407 West 36th St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bohn C C Electric Co—820 Sixth Ave
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Cincinnati Specialty Mfg Co—39-41 Cortlandt St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Frost Samuel—41-43 W 14th St
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place

Manufacturers and Agents (Continued)

Fixtures and Portables (Concluded)

Mitchell Vance Co The—503 W 24th St
Morison Electric Supply Co—15 E 40th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Penn A C—Singer Building
Phenix Lighting Fixture Co—144 Bowery
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Roeser Studios Inc—58 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way
Western Electric Co—151 Fifth Ave and 105 W 40th St

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St
Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY
Western Electric Co—151 Fifth Ave and 105 W 40th St

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dover Mfg Co—30 Church St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads) 41st St and Madison Ave
Landers, Frary & Clark—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom, Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Trainor S George—47 West 42nd St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Fox Elec Corporation (Simplex)—119 W 42d St
Hart Wallace B (Roma) (Horton)—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Livingston J & Co—104 E 41st St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Grand Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St
Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave

Lists Continued on Page 148

May 1920

The Water Gate, Foot of Wall Street, 1679

VOLUME 12

CONTENTS

NUMBER 5

The Edison Directory

	Page
Department Stores	129
Manufacturers and Agents	129
Wiring and Installation Contractors	150
Authorized Mazda Lamp Agents	152
Specializing	160
Edison District Offices with Map	Inside Back Cover

The Edison Monthly

	Page
Editorial	134
Seventh Avenue Wakes Up	135
The Silent Servant (Verse)	138
Bush Terminal Trucking	139
Bakery Orders More Electrics	141
Sing a Song of Sewing	142
Nieuw Haarlem	144
Yesterday and Today (Verse)	147

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Walter Neumuller, Secretary
Frederick Smith, Treasurer

It may not be customary to think of a machine in terms of sickness and health but it is a fact that there are machines that require constant mechanical attention just as there are people who require constant medical care. The individual who goes through life with the least need of attention from his physician and who spends the fewest days in the hospital is apt to have a greater record of accomplishment than his less fortunate neighbor. By the same token, the machine that gets along without much recourse to the repair shop is rated high in efficiency.

The Bush Terminal Company operates a fleet of thirty-three electric trucks, twenty-five of which are five-ton vehicles. These twenty-five, during the last year for which records are available, were out of service for only twelve days each in a working year of 302 days. Twelve days of lost service in a year surely speaks well for the ruggedness and dependability of the electric truck, especially when it is remembered that only a part of the twelve days represents time spent for actual repairs. A considerable part of the loss was caused by quiet days in the off-seasons when only a part of the fleet was needed to handle the days' deliveries.

Because it is not forever being laid up for overhauling and repairs, the electric is on the job for a greater percentage of time than any other type of truck and this accounts for its growing popularity and increasing use for all kinds of local work.

New York is a city of communities. People having much in common have grouped themselves in certain sections and these regions have in time come to take on many of the characteristics of the people who dwell in them. In the same way, business houses of allied interests have gravitated toward each other and now, just as there are residential communities, there are business groups which bear unmistakable signs of their respective industries.

Automobile Row is an instance, and downtown there is Newspaper Row. The name sticks even though many of the newspapers have established themselves elsewhere. The jewelry district is on Maiden Lane. Hudson Street rumbles all day long as truck load after truck load of groceries is shipped to the retailers.

Now the garment making industry is establishing itself in such a centre and, in a very few years, to think of the needle trades will be to think of Seventh Avenue. The first buildings are now under construction and soon Seventh Avenue, especially the section between the Pennsylvania Station and Twenty-fourth Street, with the cross streets between, will be occupied by handsome factory buildings—the homes of the city's largest industry.

Seventh Avenue Awakens

SEVENTH AVENUE became a thoroughfare of paramount importance as soon as its extension into the heart of the downtown business district was completed. The opening of the west side branch of the subway culminated the general and broad improvements of this avenue which hitherto had been of practically no commercial value. It now bids fair to become as well known in manufacturing circles as Fifth Avenue and Broadway are known in their respective activities.

It is characteristic of the various industries of the city to group themselves in certain sections. These neighborhoods, through the constant association of their names with those of the industries, eventually become identified as the homes of these activities. Maiden Lane is known throughout the country as the jewelry center; Fourth Avenue has become the dry goods district; on Hudson Street are gathered the wholesale grocers; and Wall Street, the world over, is known as the great financial center. Automobile Row, Newspaper Row, and the Theatre District all have their distinct individualities. The latest section of the city to be "adopted" by an industry is Seventh Avenue and the adjacent side streets south of the Pennsylvania Station. This district will become the home of the needlework trades, the fur business, and kindred industries.

The manufacture of clothing in New York under the factory system began about 1835. Its development as a leading industry began with the

Photograph by The New York Edison Company

Seventh Avenue as it Looks To-day. It is to Replace These Little Three and Four-Story Houses that the New Buildings of the Garment Trade are being Planned

invention of the sewing machine in about 1846. In 1849 there were in the State 976 establishments manufacturing ready-made clothing. The cutting machine, with which many thicknesses of material can be cut in one operation, was invented in 1870 and had such a stimulating effect on the industry that, when the census was taken in 1889, it was found that the number of garment-making concerns had jumped to 3,843. There are now more than 30,000 factories of all sorts in New York City and, of this number, fully one half are devoted to the manufacture of ready-made clothing. It is interesting to note that though the business first started in a series of little, out-of-the-way sweatshops, it is now the greatest industry in the city and is demanding for itself such fine buildings as those planned for Seventh Avenue.

The announcement that a building will be electrically equipped usually suggests nothing to the mind of the lay reader beyond the simple fact that the elevators and perhaps "some machines and things" will be run by electricity. The use of electricity for manufacturing purposes means more than this. It means, for example, lower selling prices because, in the long run it costs less to manufacture by electricity than by any other motive power. It also means a clean city, for where electricity is used there are no smoke-belching chimneys.

Inasmuch as this last advantage gained through the use of electricity for manufacturing purposes is a purely negative one, it is little appreciated by the casual citizen as he walks, let us say, on Fifth Avenue. This fashionable thoroughfare would soon lose its present attractiveness were all its factories—and they are legion—suddenly to emit great clouds of smoke from numberless chimneys. One has only to spend a few days in a city devoted to smelting and other kindred industries in which the use of coal is as yet indispensable, to appreciate the cleanliness of New York.

Building Operations Resumed

The high cost of materials and labor during the war held up until recently building operations which were to have been completed some months ago. Now the work is well under way and Seventh Avenue is a scene of great activity. The side streets, too, are coming in for their share of the general improvement, and whole groups of three- and four-story houses are being torn down to make room for loft buildings of eighteen and twenty stories.

The buildings will all be modern to the last degree and will be electrically lighted and equipped throughout.

A typical example of one of these new structures is the Manufacturers Building, owned by the Regent Construction Company, Inc. It is now in process of construction at 319-335 Seventh Avenue. This building will be twenty stories high and will occupy the whole block front between Twenty-eighth and Twenty-ninth Streets. Each floor will contain approximately 20,000 square feet. The building will be equipped with a sprinkler system and a vacuum system of heating. Contracts have already been signed with The New York Edison Company to supply electricity for lighting purposes and for the operation of the elevators and house pumps. There

will be an ample number of outlets on each floor for the operation of sewing machines, cutting machines and lay-marking machines.

In order to comply with the zone law, which limits the height of buildings on various streets but permits an increase for every specified number of feet a portion of the building sets back from the street line, the upper part of the Manufacturers Building will be set back, at the sixteenth floor,

Schwartz & Gross, Architects

The Manufacturers Building in Process of Construction at 319-335 Seventh Avenue is a Typical Example of the Modern Factories to be Built on this Thoroughfare

adding much to the imposing beauty of the structure.

Immediately to the south of the Pennsylvania Station, The Starboard Realty Corporation will erect a seventeen story building, the estimated cost of which has been placed at $3,000,000. More operations are being carried on in Twenty-seventh, Twenty-ninth and Thirtieth Streets. In almost all of these operations contracts have already been signed with The New York Edison Company for the supply of electricity.

Aside from the advantages gained by relieving the noonday congestion of other sections, this new development will materially improve the appearance and standing of a great avenue which up to now has had little commercial importance. Down to the Pennsylvania Station on the west side and the Pennsylvania Hotel on the east side, Seventh Avenue amply justifies itself, but below Thirty-first Street, there is little to point to with pride. Two long rows of little three- and four-story houses, for the most part small shops and tenements, some of old dull brick, some even of wood, are the only buildings at present on all this broad thoroughfare.

In a couple of years all this will be changed and from the Pennsylvania Station almost all the way to Greenwich Village the avenue will be lined with great buildings of industry, of which New York may well be proud.

The Silent Servant

He swept the floors and cooked the food
  And polished knives and forks and spoons,
Was never known to have a mood
  Or ask for Thursday afternoons.

He kept the irons good and hot
  And did the washing—quickly, too;
Was always Johnny-on-the-spot
  No matter what he had to do.

'Twas his to keep the whole house bright
  And help the master and the maid,
And yet they turned him out each night—
  This servant named Electric Aid.

Walter G Doty

Bush Terminal Trucking

TWO hundred and ninety days of actual service out of a possible three hundred and two working days is the record of the five-ton trucks of the Bush Terminal Company. There are thirty-three trucks in the Bush fleet, twenty-five of them five-ton vehicles which were installed during 1916 and 1917. These twenty-five trucks are the ones which have averaged less than twelve days lost service during a working year. As a fleet they averaged 887½ miles each day, while there was hardly a day that two or three of the cars did not run from forty to forty-five miles.

The electrics of the Bush Terminal Company are familiar enough to New Yorkers, for they are on the street every day and their routes take them from the terminal in South Brooklyn to all parts of the city. They handle a great part of the local deliveries from the terminal, serving the manufacturers whose factories are in the big loft buildings and whose customers are scattered throughout the city. They also deliver goods to the North and East River piers for shipment abroad.

When the Bush Terminal Company began to operate a delivery service in 1905, horses were used exclusively. In spite of increasing cost of horse maintenance they monopolized the work until the spring of 1915. Then, in the hope of finding a more economical delivery system, four electrics

Photograph by The New York Edison Company

Trucks are Lined up Facing the Centre Line of the Garage, thus Making Possible the Use of One Plug for Charging, in Turn, Several Batteries

were purchased. Two more were added in the fall of the same year and the operation of the six cars was watched closely. The superiority of the motor truck was easily apparent and the elimination of the horse began. During the spring of the following year twelve more electrics were purchased and as fast as the autos were delivered by the manufacturers, the horses were replaced. The electric truck fleet was completed in February, 1917, with the installation of fifteen five-ton trucks and during the same year the last of the horses were sold. Seventeen other electrics which were delivered in 1917 were taken over by the War Department and have not yet been demobilized.

During the overlapping period in which both horses and motor trucks were used, the delivery department was operated in two separate divisions. The horse division lost enough money every day to more than offset the savings that the electrics effected. It was not until the horses were gone that the delivery department began to show a profit.

The big loft buildings of the Bush Terminal Company extend for blocks along the South Brooklyn water front. They are occupied very largely by manufacturers whose raw materials are imported or come in by freight train and lighter from different parts of this country. Railroad connections make possible the convenient shipping of the finished product to points away from New York, while the electric truck fleet handles all deliveries within the city itself.

In order to make possible an early morning start the vehicles are loaded after finishing their afternoon routes. They then go to the garage and are charged during the night. They get away at seven in the morning. This early start makes possible a second trip in the afternoon.

The electrics make the trip from South Brooklyn by way of Fourth Av-

Photograph by The New York Edison Company

Tractors and Trailers Move the Greater Part of the Merchandise from the Piers to the Various Warehouses

Photograph by The New York Edison Company

Delivering Bags of Coffee to One of the Warehouses

enue, Flatbush Avenue and the Manhattan Bridge. This makes a trip of more than five miles before the trucks reach Manhattan. On the other hand, it is possible to reach lower New York by way of the ferry from 39th Street. By this route the trucks could save battery energy during the three mile sail and reach the Manhattan Bridge with a run of less than two miles. But the ferry is slow. There are always long lines of trucks waiting for the boats and it sometimes happens that two boats will have come and gone before the end of the truck line reaches the ferry-house. So, in spite of the extra miles for which the batteries must furnish power, it is far more satisfactory to make the trip over the bridge.

In addition to the trucks for general deliveries the Bush Terminal has a great fleet of storage-battery tractors and trailers. These trailers, carrying great loads of merchandise, are hauled from the piers to the warehouses, where they are left while the tractor goes off for another train. These tractors are very powerful in spite of their small size and it is a regular thing to use them to shift loaded freight cars if no locomotive is available. Some of the tractors are equipped with cranes for lifting the heavy pieces. The first of these crane-equipped tractors were installed about nine years ago and they have given continuous service ever since.

A garage at 43rd Street and First Avenue houses all the electrics. The trucks are stored in one section while a smaller room is provided for the tractors. The trucks come in at night and are lined up, facing the middle of the floor. The charging plugs are suspended from the ceiling in a line down the centre of the building and as the vehicles are face-to-face it is possible to charge several batteries in turn from the same plug.

Bakery Orders More Electrics

After a series of tests in which all methods of delivery were considered, the Shults Bread Company has ordered twenty-five 1250 pound electric delivery wagons. They will operate from the Bronx bakery and will deliver in the Bronx, Harlem, Yonkers, and New Rochelle. Deliveries in lower Manhattan, will be made from the Brooklyn bakery where electrics have been in use for a long time.

Sing a Song of Sewing

SPRING has come! That exhilarating time when green things and creeping things awaken under the rain-softened earth and stretch themselves toward the sun. Children's voices echo through the wildwood and over the common. The season of dreams and fancies, smiles and laughter, poetry and song, is here.

> "In the spring on dress goods counters, dainty fabrics hang in rows;
>
> In the spring a woman's fancy lightly turns to thoughts of clothes."

A thousand apologies to Alfred Tennyson!

In the spring the whir of—no, not a spinning wheel, as it should be in order to keep up the poetic strain,—the whir of a sewing machine comes to us through the open, white-curtained windows.

Imagine yourself standing on the threshold of a sun-flooded room. In the half-opened windows crisply ruffled white curtains sway gently and gay chintz adds a dash of brilliancy to their freshness. Hanging from the cream colored ceiling, an inverted electric-light globe is in readiness to supply semi-direct rays as soon as its rival, the sun, slips out of sight. Near the window a chair is drawn close to a low sewing table.

Where is the Sewing Machine?

You may wonder how this sewing room is different from any other. There is no machine in sight and you watch curiously as your hostess opens a closet door and removes from a shelf a box about the size of a suit case.

"My sewing machine," she explains briefly.

"And you can carry it!" you exclaim.

"I took it to Mother's yesterday." She smiles with satisfaction and places the case on her sewing table. As the cover is taken off—behold! there is a legless, peddleless sewing machine!

An immediate, enthusiastic examination follows. It is easily seen that this wonderful object can produce great results with little or no effort on your part. By mere pressing of a knee or foot controller, as the case may be, the electric sewing machine turns out long seams, tiny tucks, yards of ruffles, hemstitching—all those things that ordinarily consume so much energy.

At your hostess's request you sink into the comfortable depths of a velvety davenport, that helps carry out the effect of a sitting room, while she takes her place at the sewing machine. Having connected the motor to a lamp socket, she selects a garment from the pile at her side, adjusts the needle, presses the controller and begins to sew up a long seam. The machine, run by a small motor, hums and whirs over the yards to be travelled.

"There you see!" she exclaims as the end of a seam is reached, "no energy is wasted. All that you have to do is guide the material under the needle. You feel no fatigue and your

nerves are as good as when you began. The cost for the electricity used in running the motor is hardly worth mentioning, for it does not amount to more than one cent for three hours."

It is while you are examining the equipment of the machine that you discover a tiny light attachment fastened near the needle. It is swung on an arm so that the seamstress may illumine her work in even the darkest corner of the room and thus sew without strain on her eyes.

"But," perhaps you say after you have thought it all over, "suppose you already have a sewing machine and do not want to go to the expense of buying a new one—"

"That is simple," your hostess answers readily. "You can get a small motor attachment with a foot controller, and use it on your old one. It is very good and very satisfactory."

She places the cover on her machine, returns it to its place in the closet and starts toward the door.

"Make yourself cosy while I run into my electric kitchen. I'll press a few more buttons and we'll soon have luncheon. In the meanwhile, in order that you may keep cool in this unusually warm afternoon sunshine,—"

She turns on a small electric fan adjusted above your head, smiles and leaves the room.

Photograph by The New York Edison Company

"In the Spring a Woman's Fancy Lightly Turns to Thoughts of Clothes"

Nieuw Haarlem

A CONGESTION problem on Manhattan in the reposeful year of 1658 sounds fantastic. Nevertheless, in the year in question the City of New Amsterdam, for the "further relief and expansion" of the municipality and the "promotion of agriculture", founded a "new village or settlement on the fertile flatlands at the end of the Island." This village received the name of Nieuw Haarlem. Within two years the community was given a town charter and was further dignified by the establishment of an inferior court. Nieuw Haarlem, three years later, contained the imposing total of thirty-two male inhabitants, one half of whom were Walloon French. Failure to record the female population is compensated by the mention of a village clergyman, whose offices were strictly prescribed by village limits. Among these first settlers were families still prominent on the Island—La Montagne, Le Roy, Brevoort, Tourneur, Kortright, and Demarest.

Haarlem Village was laid out to the east and southeast of the present Mount Morris Park, with the green lying along the water front at the foot of Pleasant Avenue and 124th Street. Its two streets ran parallel, diagonally westward. In addition to a lot in the stockaded enclosure, each settler was given a farming tract and a stretch of salt meadow. This last reflects the Dutch and early New England conviction that salt hay was an indispensable preventive of the ills produced in cattle by the New World climate.

Illustrations from Valentine's Manual

Harry Bertholt's Hotel on the Speedway was a Popular Harlem Resort in the Days Before the Automobile

A Squatter Settlement on the Hills of Harlem

Persistency of the Dutch spirit is seen in the Dutch spelling of the village name as late as 1807. Indeed, the intervening events of the English occupation of the province and the subsequent revolution of the colonies did little to alter the town's rural simplicity. Notwithstanding, Haarlem saw a deal of action during the revolutionary conflict. Where Columbia University stands today occurred, in September, 1776, the memorable battle of Haarlem Heights, the struggle taking place in a buckwheat field occupying the present site of Barnard College. An eloquent relic of the Revolution is still discoverable some eight hundred feet east of the Sedgwick Avenue line and abutting on the Claflin Estate. This relic is a dilapidated earthwork built by the Pennsylvania troops and known as Fort Number 4. A donation by Mr. Claflin has placed the whole of the fort upon public property. A powder magazine in this neighborhood was conspicuous for many years after the Revolution. In the second war with England, and anticipating a naval attack from the river, extensive fortifications were erected at McGowan's Pass where Harlem Creek and the marsh narrowed the Island to a width of 2100 yards.

Recovering its equanimity shortly after the 1812 excitement, Harlem Village pursued for half a century an existence untroubled by revolutions, political or industrial. A traveler late in this interval alludes to the village as unchanged and as probably continuing its country character. Evidences of a long centered community life emerge in reminiscences looking back to the middle 1800's. Then, at the corner of the modern Third Avenue and 106th Street, stood the old "Red House," a celebrated road tavern providing on its east side a big veranda from which guests could view the trotting and athletic events that were held on the neighboring fairgrounds. On Sunday, Harlemites took pleasure in the startling diversions

of a stroll along the "Rope Walk" that ran by the side of the 108th Street Canal. The course of this waterway extended from Fifth Avenue to the East River and included the present Central Park lake. Residents of the locality were wont to amuse themselves by boating and bathing in "Timmon's Pond" then in the middle of the present 116th Street, between Fifth and Lenox Avenues. The larger "Goldfish Pond" at 114th Street and Eighth Avenue was favored in the winter for hockey and skating.

Occupying the top of Mount Morris Hill in 1858 stood Conrad's Hotel, a famous old dancing pavillion and neighborhood rendezvous. Another top notcher was Brozey's restaurant and wine cellar situated on the crest of "Snake Hill" at Park Avenue, between 120th and 124th Streets. Not at all strange to relate, scores of squatters built cabins about this attractive centre and remained thus in loyal irresponsibility until the property became of value for other purposes.

Harlem Post Office held forth at this period in Maby's hardware store at the 106th Street corner of Third Avenue, three letter carriers being ample for the vicinity. At this time, the Manhattanville stage ran through 125th Street, transferring to the Carmansville stage line that ran up to 152nd Street. In 1866 the Harlem Depot, in Park Avenue between 125th to 126th Streets, accommodated the public in a room 12 x 15 feet. Politics, following up its traditional affinities, ensconced itself in "Joe" Coeburn's Grape Vine Hotel across from the depot. The "Joe" in question wielded the prestige of many a pugilistic victory. The village polling place was across the

Photograph by The New York Edison Company

The Busy, Thriving Harlem of To-day as Seen from Morningside Park

street at "Jim" Hope's place, where appropriately enough glass globular ballot boxes were long used.

But forty years ago, Harlem gave the simple impression of block upon block of small houses, mostly painted white and set in sweet smelling gardens. The general store of the village stood at Seventh Avenue and 125th Street, and the town's only restaurant, a substantial German establishment, did a work-a-day business at 122nd Street and Third Avenue. One solitary theatre, situated over a car barn at 130th Street and Third Avenue, accommodated the public and such strolling players as happened in this direction. Communication with downtown was dependent upon horse cars and the East River Company's long remembered steamboats, the Morrisania, the Sylvan Glen, and the Harlem. Although transit by this latter means was pleasant enough, many preferred the horse cars which, however, consumed two hours in reaching City Hall.

Electricity Introduced

Following the construction of the Third Avenue "L" in 1878, a distinct boom in Harlem interest and Harlem real estate took place. While manufacturing moved north slowly, the village found itself a community of thriving residential promise, its one-time cottages giving place on all sides to the proverbial "flat." Elevators, to be sure, had not yet become available.

Fortunately for the electrical aspect of things, the small companies which served the section were taken over a few years later by the rapidly growing New York Edison Company, whose inception and early development were presided over by Thomas Edison himself. By the early 90's the mains of this Company, in response to a desire for current in the new Fifth Avenue mansions north of Fifty-ninth Street, were extended north on both this line and Madison Avenue. With the absorption of the up-island companies, the Central Station came in direct connection with the whole Harlem district. Encouraged by such service, property interests began the building of the more modern apartment; and manufacturing, notably in the case of the tobacco and marble industries, ventured into the territory and established themselves in the East River section.

The recognition of Harlem as an electrical district and the opening of a Harlem branch office were more than warranted by the tremendous growth of the locality. Manhattan's apartment dwelling population is here in force and the influx of manufacturing has been no less pronounced.

The old settlers, through force of fatherland associations, called the place Nieuw Haarlem. If they could but glance today upon the transformation of their erstwhile village they no doubt would think it new indeed.

Yesterday and Today

To light a candle used to be,
A work of prestidigitry.
It took of matches eight or ten,
And commonly blew out again.

To light a candle now's to see,
A work of seeming wizardy.
To push a lever down, and lo!
A thousand candles all a-glow!

R E Alexander

Manufacturers and Agents (Continued from Page 132)

Motors

General Uses (Concluded)

Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
Livingston J & Co—104 E 41st St
MechanicalApplianceCo(Watson)—39Cortlandt Street
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Motors Co—149 Broadway
Sprague Electric Works—527 West 34th St
Wagner Electric Mfg Co—30 Church St
Wald Electric Motor Co—417 Canal St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Belyea Co—145 W 18th St
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Bohn C C Electric Co—820 Sixth Ave
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const &Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—145 West 18th St
Cutter F B Co—50 Church St
Eisenberg General Con Co—149 Grand St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Manufacturers Equipment Exchange—Lafayette and Prince Sts
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Electrical Repair Co Inc—240-242 West 25th St
Florandin & Co Chas H—110 West 40th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St
Walsh Electrical Supply Co (Household)—275 Madison Ave

Signs Electric

Bofinger Bros—146 East 42dSt
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System (Electric)—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L (Flexlume Sign Co)—560 Seventh Ave
Universal Elec Stage Lighting Co (Kliegl Bros) —240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 Church St
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1123 Broadway

Manufacturers and Agents (Continued)

Specialties

Betts & Betts Corp (Fuses-Refillable)—511 West 42d St
Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers)—1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes)—114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co (Santo)—820 Sixth Ave
Comstock Household Service—21 E 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Duntley Products Sales Co—295 Fifth Ave
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp (Hoover)—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Frost Samuel—41-43 W 14thSt
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co (Thor)—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Const Co—42 E 32d St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Sloane W & J (Invincible)—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—(Bissell & Simplex)—47 W 42d St
Tuec Company The—103 Park Ave
United Electric Company—103 Park Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St.
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanitax Elec Co—143 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Trainor S George—47 W 42d St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn N Y
Bell Harry A—47 West 38th St (The Eden)
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Domestic Laundry Equipment—224 W 26th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp (Gain-a-day)—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—(Aurora) (Judd) (1900) (Cataract)—46 E 41st St
Home Devices Corp (Modern Home Washers)—11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—42 East 23rd St.
Laun-Dry-ette Sales Co—36 W 37th St
Lightolier Co—569 Broadway
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co (Geyser)—35 Vestry St
Pittsburgh Gage & Supply Co (Gain-a-day)—119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Manufacturers and Agents (Concluded)

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Irish W F Co—130 W 32d St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Killoch David Co—57 Murray St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 196—M Zuckman
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Grand St 149—Eisenberg General Con Co
Great Jones St 5—Geo. F. Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Varick St 203—Riccio Electrical Contractors
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber

Wiring and Installation Contractors (Continued)

East 5th St 416—Frank Bloom
Pitt St 141—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1168—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 9th St 320—Endig Electrical Works
East 13th St 2—B W Sandbach & Co
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 42—Kimball Elec Construction Co
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—Wm Fredericks
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 18th St 145—Belyea Company
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker Electric Co
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 42nd St 239—Hudson Elec Eng Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co
Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 368—E F Rusie
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Madison Ave 407—Manhattan Elec Cont Co
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 605—"B" Electric & Hardware Co
Third Ave 731—Metropolitan Electric Co
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 112—J F Delahant Elec Sales Corp
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
East 95th St 156—Edward Zenker
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2490—J F Delahant Elec Sales Corp
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower

Wiring and Installation Contractors (Concluded)

Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
East 125th St 163—F J Rush
Park Ave 1630—Wimpie Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 141st St 470—Dorler & Domis
East 152nd St 726—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Morris Park Ave 685—M Wm Smith
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 11½— S W Mills
East Fordham Road 273—Endig Elect Works
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barclay St 109—Spilger Electric Co
Barrow St 25—Jos Torre
Beaver St 21—J Hillgardner & Son
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beekman St 74—Jordan Bros
Beekman St 96—Naumer Electric Co
Bleecker St 13—Schwartz & Blumengarten
Bleecker St 122—A Epstein
Bleecker St 178—Rocco Secco
Broad St 39—Beaver Electric Co
Broad St 41—Industrial Supply Co
Broad St 68—Broad Equip Co of N Y
Broadway 1—William Vautin
Broadway 195—Western Electric Co Inc
Broadway 335—Monowatt Elec Import Co
Broadway 371—Rabinowitz & Kluger
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 435—Radiant Electric Lmp Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broadway 583—Eclipse Light Co
Broadway 652—New Era Appliance Corp
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 243—Van Ben Thuysen Robt Co Inc
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 196—Max Zuckman
Centre St 211—Patterson Gottfried & Hunter
Centre St 231—Worth Electric Co
Chambers St 101—Broadway Hardware Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Church St 30—Wm Braun
Church St 30—E A Delaney
Church St 30—P A McGuire
Church & Vesey Sts—Metropolitan Hardware Co
Cleveland Pl 25—Globe Electric Co
Coenties Slip 13—Jos J Keegan & Co
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 38—Fred Kraft Inc
Cortlandt St 39—W S Broadhurst
Cortlandt St 84—Bleyle Electric Co
Cortlandt St 86—A E Gelling

Authorized Mazda Lamp Agents (Continued)

Dey St 48—John J Leahy
Dey St 65—M K Bowman-Edson Co
Duane St 23—Empire Elec Co
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 52—Flitner Atwood Co
Front St 54—Ocean Ship Chandlery Co
Front St 62—William E Williams
Front St 124—Charles Davidson
Front St 162—W S Pendleton Jr & Co
Front St 194—E George & Co
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—David Perlman
Fulton St 105—Montgomery & Co
Fulton St 110—Marlen Hdwe Co
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Gold St 46—Van Axen Elec Co
Grand St 176—North American Chandelier & Supply Co
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 211—Interborough Lighting FixtureCo
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich Ave 17—Nathan Staulsky
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 255—G M Ross
Greenwich St 460—A F Beckman & Co
Hudson St 207—James D Mills
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 84—Alfred Whiteley Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 120—Chas W Osburg Co
Liberty St 120—Fred C Wagenback Co
Liberty St 120—Welborne & Co Inc
Liberty St 123—Smith-Meeker Eng Co
Liberty St 126—Thomas & Johnson
Liberty St 133—Chas W Leveridge Inc
Madison St 57—Liberty Eng & Elec Sup Co
Maiden Lane 90—Palo Co
Maiden Lane 91—Weber & Jones
Mercer St 305—Ensor & Co
Mott St 44—Quong King Long Co
Murray St 23—Stanley & Patterson
Murray St 43—Conlan Electric Co
Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Murray St 70—Gen'l Gas Arc Maintenance & Elec Co
Nassau St 20—Jas O Oliver & Co
Nassau St 82—Rudolph Weidhofer
Nassau St 145—N Y Supply & Inspection Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 35—Henry A Kissel & Co
Pearl St 116—Kelting Electric Co
Pearl St 187—Elite Elec Co
Pearl St 399—East Coast Elec Sup Co
Prince St 44—Louis Iorio
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Reade St 105—Union News Co
Rector St 26—Rector Electric Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 82—Eastern Electric Works
South St 32—Wm H Swan & Sons
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Stanton St 49—J N Grossman
Sullivan St 29—Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Varick St 203—Riccio Electrical Contractors
Vesey St 59—L Gabler & Son
Vesey St 45—Casey Naser Elec Co
Vesey St 65—Henry Menzer
Vestry St 35—Northwestern Electric Equip Co
Vestry St 80—R J Masbach
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 77—Parr Elec Co
Warren St 97—Wm E Glaeser
Warren & Church Sts—Perlman Auto & Cycle Supply Co
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
Water St 52—Lund & Miller
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West St 90—C C Galbraith & Son
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
White St 39—Wm Rouguett
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
Wooster St 33—Paul Silverstone
Wooster St 176—Jos Kerne

East Side District

Avenue A 196—F W Schneider
Avenue D 2—The New Interboro Electric Co
Bowery 118—United Incandescent Gas Light Co
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 135—Eureka Lighting Fixt Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Fix Co
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 250—Metro Lighting Fixt Supply Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 273—Beacon Sales Co
Bowery 280—United Lighting Fixture Co

Authorized Mazda Lamp Agents (Continued)

Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—Pioneer Lighting Fixture Co
Broome St 327—N Y Gas Light Co
Clinton St 91—A Z Electrical Supply Co
Delancey St 84—Frank Silverman
Delancey St 102—Rubin Bros
Division St 87—Soffen Brothers
Division St 133—Lincoln Cont Co
East Broadway 88—Minkowitz & Cohen
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 93—I Berkowitz
East Houston St 170—D Stein
East 2d St 77—Victor Toskowitsch
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 36—Max Leaf
East 4th St 69—Eastern Electric Works
East 4th St 75—Charles Lipschultz
East 4th St 128—Isadore Schajowicz
Essex St 62—Public Elec Supply House
Essex St 172—W Katz
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 142—J Zucker
Forsyth St 182—Ben Goldberg
Henry St 121—James Drucker
Monroe St 11—Anglo Amer Elec Co
New Chambers St 4—Louis Purcaro
New Chambers St 22—Clover Electric Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 70—Goran Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Pike St 30—Freeman Bros
Rivington St 265—M Franzblau
Second Ave 73—J Brown

Irving Place District

Bible House 75—N H Bresel
Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1155—Empire Electric Co
Broadway 1168—Alliance Elec Co
Christopher St 41—W Buch
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 9th St 43—Superior Elec Co
East 9th St 57—George Murphy
East 10th St 30—Spero & Cohen
East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 13th St 34—A L Todd
East 14th St 7—William Landau
East 14th St 10—Acme Electric Co
East 14th St 10—Automatic Awning Control Device Corp
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 17th St 18—Metropolitan Elec Lamp Co
East 22d St 18—Consumers Elec Lamp & App Co
East 22d St 27—Charles Elec Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 28—A Marchard
East 23rd St 119—Cross & Cross
East 23rd St 131—Chas Besler & Co
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Elec Co
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 378—Wm Purdy
Fifth Av 63—Edison Lamp Service Co Inc
Fifth Ave 75—H M Walter
Fifth Ave and 26th St—Park & Tilford
First Ave 312—A Koppeman
Fourth Ave 108—I Gluck
Fourth Ave 121—Borough Elec Co
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Seventh Ave 182—Finkelstein Bros
Seventh Ave 189—E Christensen
Seventh Ave 219—Subway Hardware Co
Seventh Ave 227—The Little Electric Co
Seventh Ave 243—Keppler Bros
Seventh Ave 296—B Adler
Sixth Ave 164—McGeady Electric Co
Sixth Ave 182—Chas H Bingler
Sixth Ave 183—M A Karp
Sixth Ave 379—Sandback-Gilbert Elec Co
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—Acorn Electric Cont Co
Stuyvesant St 14—Julius Kupatt
Third Ave 184—Henry Green
Third Ave 238—G & P Elec Supply House
Third Ave 384—D B Pershall & Son
Union Sq 32—Leco Elec Lamp Co
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 54—Radice Electric Co
West 13th St 107—Dale Ltg Fix Co
West 13th St 408—Bullock Mfg Co
West 14th St 41-3—Sam Frost
West 14th St 112—Raphael. Morris & Co Inc
West 14th St 131—Harry J Mabs
West 14th St 132—Acme Lighting Fixture Co
West 14th St 232—Wm H Crary
West 14th St 249—Alexander Stock
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 15th St 22—Simes Co
West 16th St 4—Central Elec Supply Co
West 16th St 111—E Korkes
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 44—Rambeau & Sheflin
West 17th St 48—Beidner Elec Co
West 17th St 102—Perlman Elec Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 148—Keystone Elec Lamp Co

Authorized Mazda Lamp Agents (Continued)

West 17th St 227—Lighting Eng Service Co
West 19th St 25—Horowitz & Leff
West 19th St 40—Lewis Harbitter
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 120—Reliable Sewing Machine & Electric Co
West 20th St 241—Reliance Electric Inspection Co
West 21st St 9—Ferber Electric Co
West 21st St 66—D C Electric Co
West 21st St 117—Morris Gika
West 23rd St 235—Eastman Kodak Co.
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Goodman Jablon
West 24th St 105—Samuel Vogel
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1215—Columbia Elec Co
Broadway 1215—B W Glick
Broadway 1270—A Rescher
Broadway 1288—Electro Magnet Co
Broadway 1358—Siems & Co
Broadway 1368—Arrow Electric Shop Inc
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Brackett & Colt
Broadway 1400—Consolidated Projector Co
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1416—H R Lockwood Co
Broadway 1476 Suite 1013—American Electric Construction Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
East 29th St 34—Albin Gustafson Co
East 29th St 41—S H Kline
East 30th St 2—Simpson Electric Co
East 32nd St 19—R E Leve
East 34th St 211—Paul Prodromides
East 38th St 151—Sussman & Sussman
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 41st St 104—J Livingston & Co
East 42nd St 18—Herbert & Huesgen Co
East 42nd St 30—Midland Accessory & Supply Co
East 42nd St 51—Incandescent & Projection Engineering Co
East 42nd St 146—Bofinger Bros
East 42nd St 236—H F Electric Co
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 44th St 203—Grand Central Eng Co
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 17—Black & Boyd Mfg Co
East 48th St 201—Tiedelmann & Bohrer
East 57th 206—Paul F Weinbeer
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
East 59th St 150—J L Goodrich
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
East 59th St 241—S A Ecker
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Building—Concourse Electric Shop
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave 581—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Lexington Ave 769—Colonial Gvt & Elec Cont Co
Madison Ave 275—Walsh Electric Supply Co
Madison Ave 361—Tiffany Studios
Madison Ave 407—Melville H Bettman Corp
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 619—Frankle Alffias
Madison Ave 631—Kellog & Bertine
Ninth Ave 630—Nathan Marks
Ninth Ave 875—Wm D Munro
Ninth Ave 878—E C Clark
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Chas J Conklin
Park Ave 103—Mack & Mack
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Second Ave 1111—New Bank Elec Supply Co Inc
Seventh Ave 358—Bazaar Franko American
Seventh Ave 468—Bank Elec Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Seventh Ave 729—Howell's Cine Equipment Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Seventh Ave 830—P Lotwin
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 635—John J Finn
Sixth Ave 636—Fred B Zender
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc

Authorized Mazda Lamp Agents (Continued)

Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & CoInc
Sixth Ave 907—Harris Schwartz
Sixth Ave 947—JohnW Flint
Sixth Ave 982—Edw Nicholson
Sixth Ave 1009—John T Whitehead
Sixth Ave 1093—Mt Morris Auto Sup Sta
Tenth Ave 486—Geo E Valley & Bro
Third Ave 400—Irving Kenner Co
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 444—Fred Hardy
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 497—Manhattan Hdwe & Tool Corp
Third Ave 518—Davis Bros
Third Ave 602—E G Schwarz
Third Ave 605—"B" Electric & Hdwe Co
Third Ave 631—Chelsea Electric Co
Third Ave 647—Julius Gabler
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co
Third Ave 766 Adolph Raffner
Third Ave 767—Premier Emergency Corp
Third Ave 918—Sidney Frey
Third Ave 959—Frise & Jantzer
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 29th St 103—Keystone Elec Co
West 30th St 22—Madison Elec Supply Co
West 30th St 62—Boris Pedell
West 30th St 110—Crannell, Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 128—Joseph Gershon
West 30th St 151—Alpha Electric Co Inc
West 31st St 23—Louis Freund
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 32nd St 110—C. G. Willoughby
West 32nd St 130—W F Irish Co
West 33rd St 2—Ideal Elec Cont Co
West 33rd St 25—Harry Alexander
West 33rd St 221—E J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 34th St 227—Ace Elec Co
West 35th St 147—N Y Elec Installation Co
West 35th St 147—Peerless Eng Co
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 248—Knapp Ritzner Co Inc
West 35th St 419—Gordon & Koppelson
West 36th St 126—Metropolitan Elec Sup Co
West 37th St 36—Gotham Elec Co
West 37th St 55—Eagle Electric Co
West 37th St 58—Roesser Studios Inc
West 38th St 47—Samuel Jawitz
West 38th St 66—Herald Lamp Service
West 40th St 105—Publicity Clock Co
West 40th St 108—World Lighting Appliance Co
West 40th St 143—Smith Elec Co
West 40th St 311—Norden Elec Sign Co Inc
West 41st St 103—Teale Supply Co
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J F Delahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—O J Gude Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 316—Mitchell Borna
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 442—Sharlow Bros Co
West 42nd St 529—Park & Tilford
West 44th St 44—Wm G McKenna
West 44th St 314—Display Stage Ltg Co
West 45th St 25—American Purchasing Corp
West 46th St 63—Thomas B Adams
West 46th St 150—Crown Motion Picture Sup
West 46th St 459—Continental Elec Contracting Co
West 47th St 102—Rand Electric Shops
West 48th St 304—Joseph Beck
West 47th St 310—H J McKinnon
West 48th St 168—Progressive Poster Exchange
West 48th St 244—M Schweiger & Co Inc
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52nd St 136—Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 301—Rialto Electric Shop
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 413—Frank Pisch
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 71st St 432—H Schultz
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 149—L Segalbaum
East 84th St 158—Gabriel Erdos
East 86th St 148—Rose Electric Co
East 86th St 341—L S Metzger
East 95th St 156—Edward Zenker
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1461—Fuld & Fuld
First Ave 1756—Chas H Bayer
Lexington Ave 1026—Kendelhardt & Morris

Authorized Mazda Lamp Agents (Continued)

Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 712—D M Rousseau
Madison Ave 922—Paul Sawallisch
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haverman Bros
Madison Ave 1122—S Shearn
Madison Ave 1182—DoWell Elec Co
Madison Ave 1519—Jacobson & Feldherr
Madison Ave 1532—Stein-Horowitz Hdwe Co
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Contr Co
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Park Ave 1086—S Littman
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1629—Nathan Eisenberg
Second Ave 1828—Zoltan Hartmann Elec Co
Second Ave 1838—P Stein
Third Ave 1011—J M Kohlmeir
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Jas Gear
Third Ave 1286—F & B Electrical Co
Third Ave 1298—J Rappaport
Third Ave 1311—Bloch Hardware Co
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1545—N W Altman Co.
Third Ave 1573—B Wankel & Son
Third Ave 1636—Benjamin Phillips
Third Ave 1658—Electrical Maintenance Co
Third Ave 1812—H Rose
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 206—Automotive Elec Serv Corp
Amsterdam Ave 326—I H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 767—Frank & Hanken
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—L Hoffman
Amsterdam Ave 868—Sacks & Blum
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—M Connolly
Amsterdam Ave 943—P T Dunn
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Markle Hardware Co
Amsterdam Ave 989—Marcus & Klein
Amsterdam Ave 1084—Samuel Garnter
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1632—Edward T O'Neill
Amsterdam Ave 1641—Gold Rose Hardware Co
Amsterdam Ave 1814—Louis Flato
Amsterdam Ave 1955—Ginsberg Bros
Amsterdam Ave 2141—Julius Kramer
Amsterdam Ave 2153—D Popkin
Amsterdam Ave 2232—Samuel Greenberg
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1987—King Tire Co
Broadway 2104—Modern Ltg Co
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2247—Schlesinger & Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2383—Wasself Pharmacy
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 112th St—Park & Tilford
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3499—Citron Bros
Broadway 3633—Citron Bros
Broadway 3817—Citron Bros
Broadway 3906—M Lewis Inc
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 26—Magneto Elec Generator Co
Columbus Ave 144—E May Inc
Columbus Ave 189—Budnick Bros
Columbus Ave 196—Columbus Elec Co
Columbus Ave and 72d St—Park & Tilford
Columbus Ave 220—T F Carr
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower

Authorized Mazda Lamp Agents (Continued)

Columbus Ave 505—W J Keogh
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—Alexander C Paterson & Son
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 900—Gossler Bros
Columbus Ave 925—Amsterdam Elec Supply Co
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Sup Store
East 112th St 173—Behl Electric Co
East 113th St 21—Modern Elec Cont Co
East 116th St 12—J Alpert
East 116th St 85—Prompt Elec Ser Co
East 116th St 204—Empire Gas & Elec Fix Co
East 118th St 309—S W Hurowitz
East 120th St 165—Stein Mfg Co
East 125th St 163—F J Rush
Eighth Ave 2073—Phil Epstein
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2441—A E Jackson
Eighth Ave 2662—D Enzelson
Eighth Ave 2752—E Kramer
Fifth Ave 1410—S J Eisner
Fifth Ave 2036—Frederick Klein
Hancock Place 3—Progressive Electric Co
Lenox Ave 22—Morris Perla
Lenox Ave 151—Louis Saphier
Lenox Ave and 126th St—Park & Tilford
Lenox Ave 346—Herman Young
Lenox Ave 394—S. Lichtenstein
Lenox Ave 403—Lenox Elec Co
Lenox Ave 523—J Soffen
Lenox Ave 603—Herman Pinkiert
Lenox Ave 624—P J Gold
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1630—Wimple Elec Co
Park Ave 1763—C V Gedroice & Co
Park Ave 1889—Gristede Bros Inc
Park Ave 1930—S Mayer
Second Ave 2236—A Freeman
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 169—Maurice M Schneck
St Nicholas Ave 1121—Arrow Elec Shop Inc
St Nicholas Ave 1322—A Chapoff
St Nicholas Ave 1368—Le Mar Supply Co
St Nicholas Ave 1422—Manhattan Lamp Service Co
St Nicholas Ave 1511—I Selly
St Nicholas Ave 1599—Elec Appliance Shop
St Nicholas Ave 1617—Henry Green
Third Ave 2098—Iron Spec Co
Third Ave 2257—Alex Koudelman
Third Ave 2352—Chas Mann & Co
Third Ave 2739—Special Universal Motor Co
West End Ave 165—F W Astarita
West 66th St 161—Leo Strus
West 70th St 104—Samuel Moses
West 70th St 236—S A Friedman
West 72nd St 176—Kaufman & Burkert
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 118th St 430—Morningside Elec Supply Co
West 125th St 127—Manhattan Elec Supply Co
West 125th St 215—M J Heller Elec Co
West 126th St 301—M F Petters
West 135th St 107—C M Moten

Bronx (Melrose District)

Boston Road 1168—N Goldman
Boston Road 1304—Mayo Lighting Fixture Co
Boston Road 1721—Langer & Nathan
Brook Ave 172—S Dworkin
Burnside Ave 4—F B Electric Co
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 142nd St 781—Wilson Maeulen Co
East 149th St 358—Weber Supply Co
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 432—Wm Wilkening
East 149th St 448—A Dessner
East 152d St 726—Joseph B Josephson
East 152nd St 739—Gustav Abramowitz
East 152nd St 835—J Lowe
East 153rd St 404—Joseph Mancusi
East 160th St 770—Jacob Garten
East 160th St 816—Pellar & Gates
East 161st St 615—J F Smith
East 162nd St 860—Unit Elec Co
East 163rd St 736—Sayles Electric Co Inc
East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—M Finklestein
East 167th St 460—M Schwarzler
East 169th St 535—B Weiss Electric Co
East 169th St 638—Max Berminer
East 169th St 936—Mathew Sussman
East 177th St 1753—C H Wallace
Freeman St 860—Sidney Cannold
Freeman St 879—D Hass & M Posman
Intervale Ave 882—Topal & Son
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Intervale Ave 1008—B G Roeber
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 972—Adolph Greenblat
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mahler Electric Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss

Authorized Mazda Lamp Agents (Concluded)

Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1300—A Haas
So Boulevard 1308—Louis I Waldman
So Boulevard 1327—A Dressner
So Boulevard 1348—Whitehead & Weiler
St Ann's Ave 342—S Wishnevsky
Stebbins Ave 1142—Walshin Bros
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2614—Bronx Hdwe & Supply Co
Third Ave 2718—A L Biltchick
Third Ave 2744—S Spiero
Third Ave 2817—Enterprise Elec Cont
Third Ave 2998—I Gurland
Third Ave 3000—Michael A Busch
Third Ave 3151—We Lektrify U Corp
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3808—Adolph Siegel
Union Ave 673—R J Atherly
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altman
Washington Ave 1631—Yorkville Elec Fix Co
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 796—Kessler & Steinman
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Elec Shop Inc
Westchester Ave 853—Ableon Elec Co
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Westchester Square 134—D S Robinson
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Audubon Ave 335—Wm Ward
Boston Road 1360—Joseph Leckart
Boston Road 2017—H Von Hadeln
Claremont Pkway 505—Claremont Elec Co
Clinton Ave 2117—Wm H Blank
East Fordham Road 11½—S W Mills
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co
East Fordham Road 338—H & M Bloom
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 575—Nonpareil Gas & Elec Co
East Tremont Ave 755—Becker Bros
Tremont Ave 855—Boris J Medove
East 180th St 350—Philip Klein
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 183rd St 68—Ace Electrical Co
East 183rd St 545—Fred J Gil
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East 233rd St 343—Joseph Reda
Jerome Ave 2026—Monroe Elec Co
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2376—W W Electrical Co
Jerome Ave 2423—J Wollak
Kelly St 1015—G & M Electric Co
Morris Park Ave 685—M W Smith
Morris Park Ave 706—G Kuebler & Son
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
Park Ave 4206—Hugh J Casey
So Boulevard 1881—Louis Flatau
So Boulevard 1941—Abraham Herman
Thieriot Ave 1269—Thieriot Radio & Elec Co
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4197—Adolf Birnbaum
Third Ave 4239—Northern Gas & Elec Fix Co
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
Tremont and Monterey Aves Bronx
University Ave 2370—Ernest A Boetzel
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2601—Eli Ancowitz
Webster Ave 2641—Hyman Usden
Webster Ave 2697—U S Pharmacy
Webster Ave 2775—Rudd Bros
Webster Ave 2787—Fordham Elec Supply Co
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 181st St 553—George Hunter
West 231st St 165—Louis Grossman
West Fordham Road 45—Edward W Dunn

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway Office—424 Broadway
East Side Office—124 Essex St
Irving Place Office—10 Irving Place
Forty-second Street Office—124 West 42d St
Eighty-sixth Street Office—151 East 86th St
One Hundred and Twenty-fifth Street Office—15 East 125th St
Bronx (Melrose Office)—362 East 149th St
Bronx (Tremont Office)—Tremont and Monterey Aves

Specializing

Specialization in electrical devices has become more and more popular among manufacturers and dealers who realize that the demand for a certain group of appliances is constantly increasing. Aside from the contractor-dealer, contracting not only for electrical wiring, but exhibiting and selling appliances to meet practically every need of the home, there is the man or group of men whose minds work along the lines of specialization and who prefer to take only one phase of the business and develop that to the minutest detail and utmost perfection. A special field in the world of electrical devices is that of laundry equipment where only the needs of the laundry are studied and where experts are ready to give advice.

Such a specialist is the American Ironing Machine Company, with salesrooms at 70 West 45th Street. Here, upon entering, one is struck with the fact that the very equipment one is seeking is displayed: washtubs, washing machines, mangles, ironing standards, electric irons—in short, everything suitable for the modern electric laundry either domestic or institutional. The equipment is displayed in its entirety just as it would be installed, and demonstrations show that the convenience and saving afforded by devices of this sort are worth while. To the specialist purchaser this specialist company is interested in giving its service and advice.

Photograph by The New York Edison Company

Home and Institutional Equipment as Exhibited by the American Ironing Machine Co.

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

Commercial Trucks

Commercial Truck Co of America—405 Lexington Ave
Couple Gear Company—11th Ave & 30th St
Lansden Company—229 West 42d St
Oneida Truck Co—505 Fifth Ave
Walker Vehicle Co—(General Vehicle Co) Grand Central Terminal Room 3709
Ward Motor Vehicle Co—Grand Central Terminal Room 5736

Industrial Trucks

Automatic Transportation Co—258 Broadway
Baker R & L—17 Central Park West
Buda Company—136 W 55th St
Cowan Truck Company—103 Park Avenue
Crescent Truck Company—30 Church St
Ellwell Parker Company—50 Church Street
Hoagland Thayer Company—300 Washington Street Newark
Hunt C W Inc—140 Nassau Street
Industrial Truck Company—103 Park Avenue
Karry-Lode Industrial Truck Co—Grand Central Terminal
Koppel Industrial Car & Equipment Co—30 Church St
Lakewood Engineering Co—139 Centre St
Lansing Company—492 Broome St
Mercury Manufacturing Co—25 Church St

Passenger Cars

Detroit Electric Car Co—20 Central Park West
Healy Coach Company—1662 Broadway
Rauch & Lang Inc—17 Central Park West

Storage Battery Charging Apparatus

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Northwestern Electric Co The—1457 B'way
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Witherbee Storage Battery Co—643 West 43rd St

Electric Garages

For Storing and Charging in New York City

Commercial Cars

Acker Merrall & Condit Co—532 West 46th St
Brunswick Garage The—474 West 130th St
Doelger Peter—407 East 55th St
Edison Storage Battery Co—247 West 35th St
Exide Battery Depots Inc
West Side Garage—529-41 West 23rd St
East Side Garage—141 East 25th St
North Side Garage—West End Ave & 64th St

Passenger Cars

Electric Garage The—Central Park West & 62nd St

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way

Manufacturers and Agents (Continued)

Mechanical and Battery Parts (Concluded)

Exide Battery Depots Inc—West End Ave and 64th St
Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building—Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St
Witherbee Storage Battery Co—643 W 43d St

Buffers—Polishers

Barker John H—95 Liberty St
Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway
Western Electric Co—151 Fifth Ave and 105 W 40th St

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—55 West 63d St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Conveyors

Alvey Ferguson Co The—110 West 40th St
Alvey Manufacturing Co—105 West 40th St
Brown Portable Conveying Machinery Co—30 Church St
International Conveyor Co—50 East 42nd St
Jeffrey Mfg Co The—50 Dey St
Lamson Co The—15 West 44th St
Mathews Gravity Carrier Co—50 Church St
Robins Conveying Belt Co—13 Park Row
Rownson Drew & Clydesdale Inc—68 William St
Standard Conveyor Co The—227 Fulton St

Cranes, Hoists and Winches

Alfred Box & Co Inc—Woolworth Building
Alliance Machine Co—Alliance Ohio (No New York Office)
American Hoist & Derrick Co—50 Church St
Brosius Edgar A—Pittsburgh Pa (No New York Office)
Brown Hoisting Machinery Co—50 Church St
Browning & Co Victor R—480 Lexington Ave
Champion Engineering Co The—149 Broadway
Chesapeake Iron Works—Woolworth Bldg
Cleveland Crane & Engineering Co—50 Church St
Clyde Iron Works—141 Centre St
Hayward Co The—50 Church St
Heyl & Patterson Inc—90 West St
Industrial Works—50 Church St
Lidgerwood Mfg Co—96 Liberty St
Link Belt Co—299 Broadway
Maine Electric Co—26 Cortlandt St
Manning Maxwell & Moore Inc—119 W 40th St
McMyler Interstate Co The—50 Church St
Mead Morrison Mfg Co—149 Broadway
Michener Stowage Co—17 Battery Place
New Jersey Foundry & Machine Co—90 West St
Northern Engineering Works—120 Liberty St
Shepard Electric Crane & Hoist Co—30 Church St
Sprague Electric Works—527 West 34th St
Terry Mfg Co Edward F—Grand Central Terminal
Wellman-Seaver-Morgan Co The—50 Church St

Dishwashing Machines

Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Duparquet Huot & Moneuse—108 W 22nd St
Fox Electric Corporation—119 W 42d St
Gould Appliance Co—7 West 42nd St
Livingston, J & Co—104 E 41st St
Phillipson Emil—110 W 40th St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St

Drills and Grinders (Portable)

Arnold Elec Tool Co—114 Liberty St
Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa—47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf)—303 Fifth Avenue

Manufacturers and Agents (Continued)

Electro-Therapeutic and Dental Apparatus (Concluded)

Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Morison Electric Supply Co—15 E 40th St
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanitax Elec Co—143 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
Electrical Repair Co Inc—240-242 West 25th St
Elevator Supplies Co Inc—1515 Willow Ave Hoboken N J
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)
Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Revolvator Company—Jersey City N J
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Watson Elevator Co—407 West 36th St
Wheeler McDowell Elev Co—417 Canal St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Clayton Air Compressor Works—115 Broadway
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Star Electric Motor Co—111 West 23rd St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bohn C C Electric Co—820 Sixth Ave
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Cincinnati Specialty Mfg Co—39-41 Cortlandt St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Frost Samuel—41-43 W 14th St
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.
Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place

Manufacturers and Agents (Continued)

Fixtures and Portables (Concluded)

Mitchell Vance Co The—503 W 24th St
Morison Electric Supply Co—15 E 40th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Penn A C—Singer Building
Phenix Lighting Fixture Co—144 Bowery
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Robin Lighting Fixture Co—47 Warren St
Roeser Studios Inc—58 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way
Western Electric Co—151 Fifth Ave and 105 W 40th St

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St
Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY
Western Electric Co—151 Fifth Ave and 105 W 40th St

Heating and Cooking

American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dover Mfg Co—30 Church St
Dreyfuss Co P M—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads)—41st St and Madison Ave
Landers Frary & Clark—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Special Universal Motor Co—2739 Third Ave
Trainor S George—47 West 42nd St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Dreyfuss Co P M—150 Chambers St
Fox Elec Corporation —119 W 42d St
Hart Wallace B—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Livingston J & Co—104 E 41st St
Walsh Electrical Supply Co—275 Madison Av
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Gran Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadwa

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St

Lists Continued on Page 181

June 1920

Old Watch House
Corner Wall and Broad Streets

VOLUME 12

CONTENTS

NUMBER 6

The Electrical Directory

	Page
Department Stores	161
Manufacturers and Agents	161
J T Boland	180
Wiring and Installation Contractors	183
Authorized Mazda Lamp Agents	185
Edison District Offices with Map	Inside Back Cover

The Edison Monthly

	Page
Editorial	166
The Avenue on Parade	167
Apartments, Simplex and Duplex	170
Bettman Service	172
Weld Built	174
Wise Kids! (Verse)	175
Rolling Their Own	176
The Cars at Night (Verse)	179

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Walter Neumuller, Secretary
Frederick Smith, Treasurer

The announcement that R H Macy and Company have decided to do away entirely with horse drawn delivery wagons, replacing them with 130 electric vehicles, and have already ordered the first thirty cars of the new equipment, is made more interesting in view of the fact that electrics have been used in the Macy delivery department for nearly sixteen years. The first Macy electric, purchased in 1904, and which has been followed by forty-four others, is still in service. There are still three hundred horses; but as soon as the new motor equipment is installed the animals will be sold.

The long period during which the horses and electrics worked together afforded an excellent opportunity to compare the two methods of delivery service. It was what this comparison showed that led to the decision to make the delivery department "all-motor."

Plans, for the 1920 Electrical Exposition, which are now rapidly taking shape, indicate that from an industrial standpoint the displays this year will be unusually interesting. A large section of the show space is to be devoted to exhibits in which the use of electricity in industry and commerce is portrayed. One group will illustrate the use of electric motors in factory operation; another will show how electric hoists, cranes, conveyors and stacking machinery are used in handling bulk material; and truck manufacturers will exhibit not only industrial trucks and tractors, but the larger street trucks as well.

While a great deal of interest will centre in these displays, the home and office exhibits will not be lacking. Electricity as a servant in the home will form a feature of the 1920 show that will equal in scope the household exhibits of former years.

Electric welding, used successfully in the construction of ships and in the manufacture of metal products of all kinds, is now being employed in the erection of steel frames for buildings.

Developed by the Electric Welding Company, this application of electricity was first used in the erection of an extension to the company's plant in Brooklyn. It not only proved entirely successful but, in a series of tests demanded by the city before its use could be authorized, showed strength far beyond the Building Code requirements.

In this particular case, as described elsewhere in this issue of The Edison Monthly, the building was a one-story shed, forty by sixty feet, and the steel beams and girders were welded together as they lay upon the ground and then were hoisted into position. Whether or not electric welding will take the place of the time-honored rivet in the fabrication of large structures, time alone can tell.

The Avenue on Parade

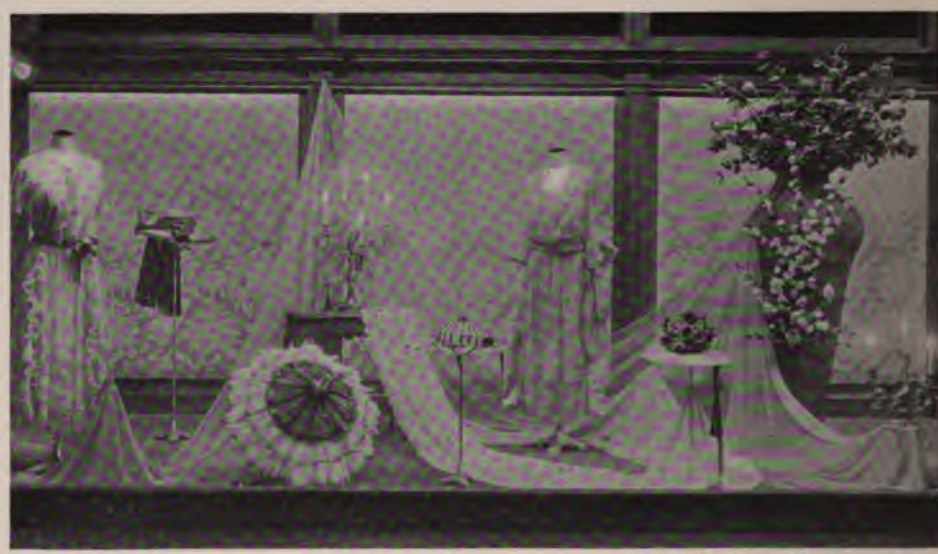
IN no other street in the world are focused to such a comprehensive degree the many and varied aspects of life as are represented on Fifth Avenue. Here is displayed all wherein lies the charm of Bond Street, Piccadilly and Park Lane, the Rue de la Paix and Champs Elysées, yet at the same time the Avenue maintains its true distinction of native character and individuality. What other street in the world can boast of its city's most fashionable residences, smartest and most exclusive club and hotel life and its finest shopping center?

Fifth Avenue Week, which was conducted in April by the Fifth Avenue Association and which may be best described as an exhibit of art in commerce, offered an opportunity for the many great shops of the Avenue to combine in a demonstration of their best examples of window decoration and display.

The city's colors of blue, white and orange, which are also the colors of the Fifth Avenue Association, were displayed on almost every building, and the customary white globes on the street lamps were replaced by the famous orange globes which have earned for the Avenue the name of the

Photograph by The New York Edison Company

The Simplicity and Good Taste Exhibited in this Window Arrangement and the Exquisite Beauty of the Gown Displayed, Won for Joseph at 632 Fifth Avenue, the Arthur Williams Medal, Offered for the Most Beautiful Window Arrangement Shown During Fifth Avenue Week



Photograph by The New York Edison Company

Altman's was the First of the Three Firms Which Won Honorable Mention in the Window Contest. Altman's Windows, although They Displayed a Variety of Merchandise, by Nice Arrangement Presented a Fine Degree of Unity in the Effect

Golden Way. The new traffic towers were decorated with green leaves and, with their big red, amber, and green lamps, added much to the effectiveness of the display.

The chief attraction of the Avenue, however, lay not in its general decorations, beautiful as they were, but in the show windows of the various stores. It was as though every concern had aimed to make its particular windows the most original and interesting on the Avenue. In effect each was a miniature stage, so carefully was it arranged and lighted.

The house of Joseph at 632 Fifth Avenue was awarded the Arthur Williams Medal for a window which combined in its general effect an exquisite sense of fitness, a nicety of discrimination as to what is and is not appropriate, and which based almost its entire appeal to the imagination and interest of the public, upon the intrinsic character of the goods displayed. In this case it was a gown—a wedding dress—of exquisite material and design, which in its fine delicacy of detail and arrangement formed a striking contrast to the velvet drapery of the background of the window.

In the award of other honors for window decoration, B Altman and Company was given first mention, William Baumgarten and Company second mention and Dobbs and Company third mention.

In one window a silver service, valued at $125,000 which was made for Sir Ranjit Singhji, Maharajah of Barwani, in Central India, occupied the place of honor. A life-size painting of Cardinal Mercier was the feature of another window. One of the Avenue's largest department stores presented a scene in Venice with life-size figures of a couple being piloted in a gondola by a Venetian boatman. Another window reproduced

the smoking room of the *H. M. S. Renown*, the ship which brought the Prince of Wales to the United States.

Thirty-two other windows were commended for various reasons. These included many arrangements which showed great ingenuity and resource in composition and lighting. Some of these were in very good taste but lacked individuality and interest, while some that were strongest in the latter qualities did not stand so high in that of taste. Over-elaborate backgrounds, which detracted from the goods displayed, counted against a number of windows. The effect of other displays was somewhat spoiled by the glitter on polished woodwork, of lights otherwise concealed. Although the medal was offered for the most artistic evening display, a number of windows were not illuminated. This detracted from the beauty of the Avenue as a whole and removed from the consideration for the medal some that might have proved formidable competitors.

The jury which awarded the medal was composed of J Monroe Hewlett, Chairman, Robert Grier Cooke, Franklin P Duryea, Bassett Jones, and Frederick N Sard.

Show window lighting is an art closely akin to that of stage lighting. Practically all of the lighting effects used in the theatre to display costumes to the best possible advantage, may, to the same end and with equal success, be carried out in the average show window. That merchants and manufacturers have come to realize this fact and to appreciate its possibilities as a great sales building feature, is seen in the very general adoption of this modern method of advertising.

Photograph by The New York Edison Company

A Silver Service Valued at $125,000 Attracted Many People to Reed and Barton's Window

Apartments
Simplex and Duplex

TWELVE stories of limestone will tower gracefully above "the finest corner in New York" when the 910 Fifth Avenue Apartment Building shall have reached completion at Fifth Avenue and Seventy-second Street. Due to the demand for the greatest amount of comfort and ease in maintaining the modern home, the most exclusive residential sections, as in other large cities, are being built up with new apartment houses of the very highest type.

A few months ago, the Fred F French Company, architects, planned the construction of an apartment house that now promises to be one of the best ever to have been built in the city. In a short while the steel framework began to stretch upward and as operations grew the whole structure rapidly took on form. Now it is certain that everything will be ready for occupancy by the first of October. This work is only a part of the large amount of construction being carried on by the Fred F French Company who are building, for example, the lovely Pickwick Arms in Greenwich, Connecticut, the two-hundred room hotel in Kew Gardens, Long Island, and a sixteen-story office building at Madison Avenue and Forty-first Street.

There are several factors that combine to make the owners enthusiastic over the new Fifth Avenue project. In the first place the building has a southern exposure, making the rooms across the front, on each of the twelve floors, delightfully sunny. The height is permissible due to the generous width of the streets at this point. Then there is the advantage of its proximity to all centers,—business, financial and social. At its door Fifth Avenue, of world renown, stretches its ribbonlike way, with throngs of people and vehicles as far as the eye can see. West of the Avenue, Central Park, with its expanse of rolling greens, broken only by rough boulders and stately trees, offers a pleasing relief from the bustle of an ever-hurrying crowd. Within a short distance are the homes of many families prominent in New York society.

The Privacy of a Home

The rooms of this apartment are so arranged as to insure the complete privacy of a home. The first two floors are occupied by two duplex apartments, one on each side. On each of the ten remaining floors there is an apartment and a half, making ten simplexes in the west end of the building and five more duplexes in the east end. Each consists of from fifteen to twenty rooms. The halls and main corridors have marble floors and wainscoting. In the case of the duplex suite, the living rooms, dining room and kitchen are on the lower floor, and the boudoirs, bedrooms and baths are on the floor above. Every apartment has a laundry on the roof, and service halls lead to the servants' quarters.

The electrical aspect is particularly interesting. In each pantry there is to be an electric plate-warmer. The living rooms will be wired so as to contain six wall brackets, one ceiling outlet, capped, and five base outlets.

The building proper will possess two electric elevators and two hoists besides a sidewalk lift. The total installation amounts to 8,000 lights and 260 horse-power, all of which is to be supplied by The New York Edison Company.

Fred F French Company, Architects and Builders

Located on "The Finest Corner in New York City" is a New Simplex and Duplex Apartment House, the Electrical Requirements of Which Will Be Supplied by The New York Edison Company

Bettman Service

THE establishment of the Melville H Bettman Corporation, electrical merchants, at 407 Madison Avenue, is one of a large number of attractive shops which have sprung up on this thoroughfare since the Grand Central development made such great changes in the neighborhood north of Forty-second Street.

With a view to favorable location, this corporation chose carefully and wisely a neighborhood which had need of just such an establishment as was opened last November. Nearby are many modern apartment houses and hotels, such as the Ritz-Carlton, Biltmore, Manhattan, Belmont and the Chatham. The Bettman Corporation occupies one of the shops on the street floor of the Avignon, one of the largest apartment buildings in the city. The volume of traffic is practically unceasing from sunrise to sundown.

In the midst of much passing to and fro, the selling of electrical household goods goes on here, drawing people from various parts: apartment dwellers from the immediate neighborhood, visitors from other parts of the city and from out-of-town. The sales records show that the same customers return repeatedly, satisfied with the working power of the article already purchased, and ready to see other devices which they can introduce advantageously into their homes. Out-of-town visitors invariably take back with them some appliance to help

Photograph by The New York Edison Company

The Melville H Bettman Corporation, 407 Madison Avenue, a Busy Electrical Shop on a Busy Thoroughfare

in their home duties. A goodly part of the trade is drawn from neighboring apartment houses where, with modern mechanical equipment already installed, it necessarily and naturally suggests itself to the homekeeper that, to be thoroughly modern in her housekeeping, she must introduce also the devices which the genius of the electrical industry has invented for her. Professional men, with offices and homes in the vicinity, are also among the visitors because of their interest in what the shop has to offer.

And what is it that attracts these various groups? Not wholly the fact of favorable location, but also the attractiveness of the establishment. Good taste is manifested in the display in the window, in the lay-out of the interior, in the small office at the rear, in fact, in everything. There is an appreciable absence of confusion of any sort. Impressed by the manner of the salesman greeting her, the customer asks to be shown a grill, percolator, or toaster, and is led to the small round tables on which these shiny, nickel articles are displayed. In the rear of the store she sees washing machines, mangles, sewing machines, and electric ranges. "Well," the visitor says to herself, "everything here convinces me that the work of my home can surely be made easy. With these devices installed, I shall never be tired again." Making her purchase, and determined to return, she thanks the salesman for his courtesy and departs.

Besides the sales made directly in the store, the corporation maintains a selling force which canvasses apartment dwellings, demonstrating principally the vacuum cleaner and interesting possible buyers by distributing literature on electrical appliances. Effort has been concentrated upon campaigns on other articles such as the vibrator and electric fan, pushed not only in the shop, but by the salesmen.

Electrical Show in October

With practically all the space on the main floor spoken for and reservations being made on the second and third floors the New York Electrical Exposition promises to be more interesting this year than ever before. The Exposition will be held at the Grand Central Palace, Lexington Avenue and Forty-sixth Street, from Oct. 6th to 16th.

A feature which will be of great importance in these days of high speed production is the industrial display, occupying the greater part of the second and third floors. Here will be shown the different types of electrically operated machines. Electric spot welders will be shown doing the work that has done away with the old-time rivet process. Electric lathes and drills will be arranged to show the advantages of the motor-driven factory over the shop that is encumbered with belts and shafting. Electric industrial trucks, such as are used by railroads and factories, will be shown in operation.

In addition to the industrial exhibits there will be displays, equalling those of former expositions, of electric appliances for the home and for the office. There is hardly a household task the drudgery of which cannot be materially lessened through the use of electricity, and manufacturers of these appliances are going to make the most of this opportunity to show their wares to the buying public.

Weld Built

HERETOFORE, as every city dweller knows full well, the erection of a new building has always meant to the unfortunate tenants of adjacent houses, many days of nerve-racking noise caused by the staccato raps of the rivet hammers. How many times have our blissful early morning hours been disturbed by the sudden rattling crash of six or eight of these peace-dispelling machines and how many times have we wished that the great steel skeleton of a modern building might, through some mysterious agency, rise over night mushroom-like from the ground, and in so doing spare us the almost unbearable noise of the steam riveters!

Now, as though in answer to these many wishes, appears the Merlin of the 20th Century who, with the use of a magic wand, erects steel structures noiselessly and with remarkable speed.

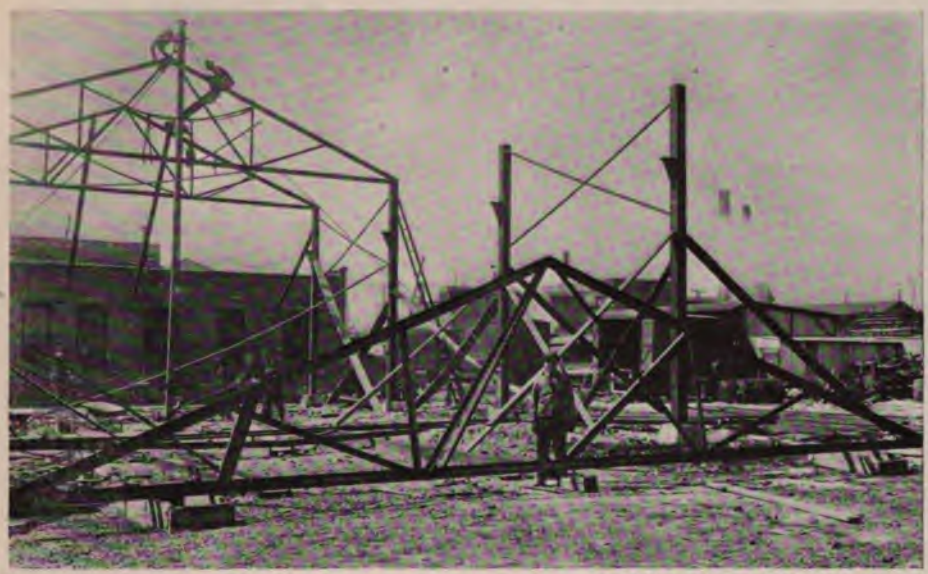
To Mr H B Payne, the chief engineer of the Electric Welding Company of America, is due the credit for a successful building operation of such originality that it may mark the beginning of a new era in steel construction work.

With increased business the Welding Company found itself in need of a new building and an extension was planned for the Company's Brooklyn works. The need was urgent, and time was short, so Mr Payne suggested that the sections of the steel skeleton be welded together as they lay on the ground and then hoisted into position and finally, again with the help of the electric arc, welded to the uprights, thus making the structure one solid piece of metal.

Before the project could be undertaken it was necessary to obtain permits from the Department of Buildings and as no data were available showing the strength of such welds, a special demonstration was required by the city engineers. Riveted and bolted steel structures withstand a weight of forty-five pounds to the square foot, but it was impossible to deduce the

Photograph by The New York Edison Company

A "Close-up" of a Part of the Truss Shown on the Opposite Page. The Joints Are Purposely made Thick so as to Obtain Added Strength. Beams United in this Manner Have a Strength Exceeding the Building Code Requirements



Photograph by The New York Edison Company

No Bolts or Gusset Plates are Used in This Steel Frame-Work, All Parts Being Welded Electrically. The Trusses Are Put Together on the Ground, and Then Are Raised and Welded to the Uprights

strength of an electric weld from these figures. For the required test, trusses were welded and then loaded with sand bags. They withstood a weight far beyond the requirements of the Building Code and the necessary permits were granted. The construction of the new building began at once.

Uprights to form the side walls were first erected in two rows forty feet apart, and the forty-foot trusses were laid out on the ground and then welded together. Raised into position, they formed a span between the supporting columns, and the work was completed by welding span and upright together. This method of construction, according to Mr Payne, saved twenty per cent in time, material and cost. In welding no bolts or gusset plates are necessary, so this much material is saved and as there are no rivets to heat, it is not necessary to have a forge. In riveting, too, there is the danger of men being struck by the red hot bolts when they are tossed from the forge to the bucket-man. These expenses and dangers do not exist when electric welding is employed.

Wise Kids!

The teacher asked her little class:
"What lights the world by day?"
And all the kiddies answered quick:
"The sun!" in accents gay.

"And now," she said, "of course you know
"What shines on earth at night?"
And youngsters, used to Broadway's glare,
Said: "Sure! Electric light."

Arthur E Scott

Rolling their Own

FATHER Knickerbocker wants his smoke when he wants it. His tremendous appetite demands 800,000 cigars a day and in addition to these he smokes 8,000,000 cigarettes and his pipe requires 2,500 pounds of fuel. All of which makes a sizeable little pile of tobacco weighing somewhere in the neighborhood of forty tons. Just what this means in boxes and cases may be seen any day at the warehouse of the United Cigar Stores Company at the Bush Terminal, Brooklyn. It is hardly necessary to add that a very large part of all the tobacco that New York consumes is sold through the various United shops.

These stores, as a rule, occupy comparatively small space, so small, in fact, that hardly more than a few days' supply of tobacco can be carried in stock. This means, then, that fresh supplies must come to them at regular intervals. Keeping these shops stocked thus becomes one of the very important tasks of the United organization and in order that the deliveries may go forward regularly and without delay, the company operates a fleet of six electric trucks and two gasoline trucks. The electrics make all the deliveries between the Brooklyn warehouse and the various stores in the city and in addition they haul the shipments between railroad stations

Photograph by The New York Edison Company

One of the Big Electric Trucks Used by the United Cigar Stores Company to Supply the Many Retail Shops in Greater New York

Photograph by The New York Edison Company

The United Company's Trucks are Garaged in the Warehouse in South Brooklyn

or steamship piers and the warehouse. The two gasoline trucks make the Westchester County deliveries.

Not only do electric trucks bring to their owners the advantages of economy, dependability and long service that other electric truck owners enjoy, but they bring still another advantage, that of housing one's delivery equipment in the business building instead of having to maintain a garage elsewhere.

The United trucks are stored in the warehouse, garaging facilities having been provided at the shipping platform. The shipping department is on the 39th Street side of the building, but instead of having a platform extending out over the sidewalk, it is built inside the building and the space between the edge of the platform and the building line is used for storing and loading the vehicles.

Under this arrangement considerable time is saved, for while the men of the shipping department are loading the trucks for the next day's deliveries, the men of the garage force are attending their mechanical supervision and are charging the batteries.

The advantages are obvious. Two necessary jobs are accomplished at the same time, and the trucks can get out on their routes the first thing in the morning. If they come back in the middle of the day for a second load it is possible to boost the batteries so that they can continue work right up to the last minute at night. If the trucks were kept elsewhere than at the shipping department, they would receive their mechanical attention

during the night, and then, the next morning, although all ready to go out on the road, would have to stand in idleness while the shipping department loaded them.

The combination of loading and charging is a very great convenience and is one that can be enjoyed by every owner of an electric truck who has enough room within his building to shelter the vehicle. All he has to do is install the charging equipment. He will not have to pay additional insurance on his building, because the electric is not considered a fire hazard; and if he is a dealer in foodstuffs he need not be afraid of imparting an automobile flavor to his products, for the electric is clean.

Besides the United Company, several storage warehouses, a hospital and a French bakery are among those which are now storing their trucks on their own premises.

Electrics Used Since 1906

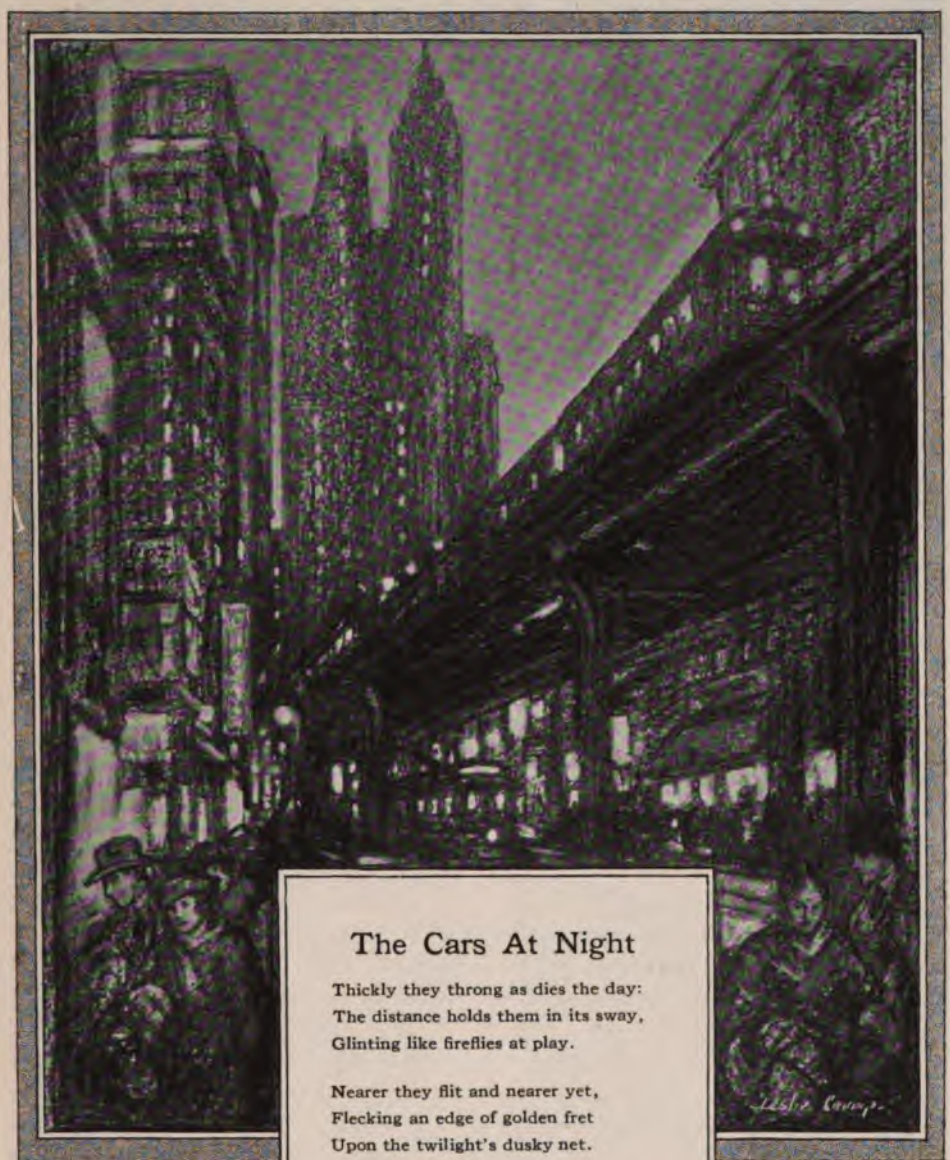
The use of electric trucks by the United Company began in 1906 when a one-ton vehicle was installed. This experiment proved so satisfactory that another and larger truck was added late in the same year and three more were purchased in 1908. These trucks were in service between ten and thirteen years, being replaced during 1915 and 1916 by the six five-ton trucks now in service.

In order that all of the stores may be reached regularly the Greater New York territory is divided into zones. There are six of these zones, each of which is supplied in turn. On Monday the trucks cover the west side of Manhattan; on Tuesday deliveries are made in the Bronx; on Wednesday the central part of the city is covered; Thursday is Brooklyn day; on Friday the lower part of Manhattan is taken care of; and on Saturday the east side deliveries are made. Thus each store receives, once a week, its normal week's supply. In addition to this there is a rush delivery, the purpose of which is to replenish stocks that have had a larger run than usual. Through this delivery practically every store receives a second, and sometimes a third visit during the week.

In addition to making the store-to-store deliveries, the trucks carry out-of-town shipments to steamship piers and railroad stations, for the Brooklyn depot supplies all the territory east of Chicago. The trucks also handle a great deal of incoming freight, which they carry to the warehouse.

In their regular work these six electric trucks, leaving the warehouse at seven o'clock each morning, make more than three hundred deliveries each day. The distance covered by each truck averages thirty miles, with maximum runs of forty miles. This, of course, is without boosting the battery. The forty mile run is usually made in Brooklyn when a truck has a comparatively short route to cover. After finishing a fifteen or twenty mile trip it will return to the warehouse and exchange bodies, leaving an empty one for one that has been loaded. Thus it will get out on the street with only a few minutes delay.

Basing expectations on the long service rendered by the first trucks, which, although no longer delivering cigars, are still on active duty for another owner, the United Company figures that the present electrics will be in operation at least ten years.



The Cars At Night

Thickly they throng as dies the day:
The distance holds them in its sway,
Glinting like fireflies at play.

Nearer they flit and nearer yet,
Flecking an edge of golden fret
Upon the twilight's dusky net.

Onward they sweep and brighter glow;
The tiny glimmerings swell and grow,
Till to the dazzled eye, they show

Twin flares of yellow, gleaming light;
A silvery clang, the whirr of flight,
And on they flash into the night.

Pauline Frances Camp

during the night, and then, the next morning, although all ready to go out on the road, would have to stand in idleness while the shipping department loaded them.

The combination of loading and charging is a very great convenience and is one that can be enjoyed by every owner of an electric truck who has enough room within his building to shelter the vehicle. All he has to do is install the charging equipment. He will not have to pay additional insurance on his building, because the electric is not considered a fire hazard; and if he is a dealer in foodstuffs he need not be afraid of imparting an automobile flavor to his products, for the electric is clean.

Besides the United Company's [illegible] eral storage warehouses, a hostelry and a French bakery are among which are now storing their tru[illegible] their own premises.

Electrics Used Since 1906

The use of electric truck[illegible] United Company began in [illegible] a one-ton vehicle was inst[illegible] experiment proved so [illegible] that another and larger [illegible] added late in the same [illegible] more were purchased in [illegible] trucks were in servi[illegible] and thirteen years. [illegible] during 1915 and 1916 [illegible] ton trucks now in ser[illegible]

In order that all [illegible] be reached regula[illegible] York territory is [illegible] There are six of [illegible] which is supplie[illegible] day the trucks [illegible] of Manhattan [illegible] are made in [illegible]

the central [illegible] Thursday [illegible] the lower [illegible] care of; [illegible] deliveri[illegible] receiv[illegible] suppl[illegible] rush [illegible] to [illegible] lar[illegible] de[illegible]

Photograph by The New York Edison Company

[illegible] the shop of J T Boland, at 581 Lexington Avenue, [illegible] ing to look at the goods. Skillfully arranged lighting [illegible] tive after dark as it is during the day

Photograph by The New York Edison Company

[illegible] J T Boland, is "Spotless Town" itself. Good order reigns supreme and [illegible] tray is not lacking either, making customers mentally register the determination to come again

¬d Agents (Continued from Page 164)

[illegible] St
[illegible] St
[illegible] 39 Dey St
[illegible] St
[illegible] Third Ave
[illegible] 34th St
[illegible] 23d St
[illegible] Church St
[illegible] Canal St
[illegible] W 40th St
[illegible] Fifth Ave and 105
[illegible] Elec & Mfg Co—165 Broadway

[illegible] Maintenance—Repairs

[illegible] & Co Inc—906 6th Ave
[illegible] 145 W 18th St
[illegible] & Baldwin Co—39 Cortlandt St
[illegible] Co—55 Barclay St
[illegible] Electric Co—820 Sixth Ave
[illegible] A Co Inc—35 Wooster St
[illegible] Associate Co—21 E 40th St
[illegible] Electric Corp—86 Walker St
[illegible] J F Elec Sales Corp—112 W 42d St
[illegible] 2490 Broadway
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const &Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Welderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
[illegible]rd Leonard Electric Co—Mount Vernon N Y
[illegible] 1902 Broadway
[illegible]stinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—145 West 18th St
Cutter F B Co—50 Church St
Eisenberg General Con Co—149 Grand St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Manufacturers Equipment Exchange—Lafayette and Prince Sts
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Electrical Repair Co Inc—240-242 West 25th St
Florandin & Co Chas H—110 West 40th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St
Walsh Electrical Supply Co (Household)—275 Madison Ave

Signs Electric

Bofinger Bros—146 East 42dSt
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L—560 Seventh Ave

The effective window display of electrical appliances in the makes it almost impossible for one to pass without stopping makes the window just as attractive

The interior of the electrical sho sunshine pervades everything.

St
St
St
Broadway
Broadway
47th St
Co—101 Park Ave
Vanderbilt Ave
W 42d St
103 Park Ave
—103 Park Ave
ialty Co—131 W 42nd St
pply Co—275 Madison Ave
Co—151 Fifth Ave and

ors and Hair Dryers

c Co Inc—151 W 30th St
A & Co Inc—906 Sixth Ave
Electric Co—820 Sixth Ave
Household Service—21 East 40th St
J F Elec Sales Corp—112 W 42d St
2490 Broadway
Electrical Corporation—119 W 42d St
ntee Electric Products Co—110 W 40th St
& Morison—780 Sixth Ave
W F Co—130 W 32nd St
sen John—114 Liberty St
John J Inc Elec Sup—48 Dey St.
tolier Company—569 Broadway
ström Smith, Co—41 Union Square
ngston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanitax Elec Co—143 E 23d St
Shelton Elec Co—16 E 42d St
Shiley-Pitman Elec Corp—190 Sixth Ave
Simpson P—138 W 116th St
Special Universal Motor Co—2739 Third Ave
Trainor S George—47 W 42d St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn
Bell Harry A—47 West 38th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Domestic Laundry Equipment—224 W 26th St
Dreyfuss Co P M—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—46 E 41st St
Home Devices Corp—11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—23 W 37th St.
Laun-Dry-ette Sales Co—36 W 37th St

and Agents (Concluded)

gent Electrical Supply Co—7 W 29th St
er W R & Co—371 Broadway
e Co—77 Warren St
rn Elec Supply Co—114-116 W 27th St
an Elec Corp—190 Sixth Ave
l & Son—4 E 8th St
& Betts Co—63 Vesey St
Elec Company— 151 Fifth Ave and 105
th St
nt Electric Supply Co—185 Greenwich St

all
elmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Killoch David Co—57 Murray St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St

st
en St
29th St
& 1800 Park Ave
o—4 West 16th St
r Inc—110 W 30th St
Barclay St
2d St
552 Pearl St
pplies Inc—48 Dey St
133 Liberty St
pply Co—15 E 40th St
o—35 Vestry St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

ed according to location in relation to the district offices of The New dison Company. On the last page is shown a map of the territory by the company, with the districts indicated. Additional information ding district boundaries, the offices and the representatives of the Con- t and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 196—M Zuckman
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Grand St 149—Eisenberg General Con Co
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Varick St 203—Riccio Electrical Contractors
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee

Manufacturers and Agents (Continued)

Universal Elec Stage Lighting Co (Kliegl Bros) —240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 Church St
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1183 Broadway

Specialties

Betts & Betts Corp (Fuses-Refillable)—511 West 42d St
Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass W... —1328 Broadway
Chapin Chas E Co (Brushes for Dynamos Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator ... —114 Liberty St
Cutler-Hammer Mfg Co The—(... Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers ... wich St
Kirkman Engineering Corporation ... 237 Lafayette St
Mercantile Advertising Co (W... 17 Battery Place
Minneapolis Heat Regulator ... Control for Furnaces)—... Central Terminal Bldg ... Co
Shelton Electric Co (Ph... E 42d St

Switch and D... Co Inc

Anderson A & J M M...
Automatic Elec D...
Automatic Switch ...
Benjamin Electric M...
Crouse-Hinds Co...
Empire Eng'g & E...
General Electric Co...
Johns-Manville ...
Krantz Mfg Co...
Metropolitan E... Eng Co
Metropolitan ... Brooklyn
Rail Fred...
Sprague W... Inspection Co
Trumbull E... & Co
Walker ... Co
Western ...
... Inc
Westin...

... District

... Contracting
... Co
... Co
... S Lane
... Co
... Associate Co
... & Co
... Eng Co
... Construction Co
... & Co Inc
... Powers
... & Simpson
... & Co

... —K R Schullstrom
Innovati... —Stanley Ruth Co
Kimb... 82—W E Nichols Corp
Leahy ... 02—Wm Eylers
Light... 903—Chas Weinz
L... Ave 430—McLeod Ward & Co
M... 320—J P Hall-Smith Co
N... 503—Alfred U Keedwell & Co
... Central Terminal 1735—Geo V Cooper
... Ave 186—R E Denike Inc
... Ave 405—Nathan C Solomon
... Ave 605—John Jay Bauer
... Ave 407—Manhattan Elec Cont Co
... Ave 875—William D Munro
... Ave 101—United Elec Construction Co
... Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 605—"B" Electric & Hardware Co
Third Ave 731—Metropolitan Electric Co
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 37th St 23—Kimball Elec Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 112—J F Delahant Elec Sales Corp
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 140—Louis Segalbaum
East 79th St 185—D M Rousseau
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
East 95th St 156—Edward Zenker
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

Wiring and Installation Contractors (Concluded)

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2490—J F Delahant Elec Sales Corp
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
East 125th St 163—F J Rush
Park Ave 1630—Wimple Electric Co
Park Ave 2763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 141st St 470—Dorler & Domis
East 152nd St 726—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Morris Park Ave 685—M Wm Smith
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2739—Special Universal Motor Co
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 11½— S W Mills
East Fordham Road 273—Endig Elect Works
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barclay St 109—Spilger Electric Co
Barrow St 25—Jos Torre
Beaver St 21—J Hillgardner & Son
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beekman St 74—Jordan Bros
Beekman St 96—Naumer Electric Co
Bleecker St 13—Schwartz & Blumengarten
Bleecker St 63—Harry Hyman
Bleecker St 122—A Epstein
Bleecker St 178—Rocco Secco
Broad St 39—Beaver Electric Co
Broad St 41—Industrial Supply Co
Broad St 68—Broad Equip Co of N Y
Broad St 122—Stewart Dickson & Co
Broadway 1—William Vautin
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Elec Co
Broadway 335—Monowatt Elec Import Co
Broadway 371—Rabinowitz & Kluger
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 435—Radiant Electric Lmp Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broadway 583—Eclipse Light Co
Broadway 652—New Era Appliance Corp
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 243—Van Ben Thuysen Robt Co Inc
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son

Photograph by The New York Edison Company

The effective window display of electrical appliances in the shop of J T Boland, at 581 Lexington Avenue, makes it almost impossible for one to pass without stopping to look at the goods. Skillfully arranged lighting makes the window just as attractive after dark as it is during the day

Photograph by The New York Edison Company

The interior of the electrical shop of J T Boland, is "Spotless Town" itself. Good order reigns supreme and sunshine pervades everything. Courtesy is not lacking either, making customers mentally register the determination to come again

Manufacturers and Agents (Continued from Page 164)

Motors

General Uses (Concluded)

Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Howell Electric Motors Co—149 Broadway
Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
Livingston J & Co—104 E 41st St
Mechanical Appliance Co—39 Cortlandt St
National Electric & Welding Co—110 W 40th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Motors Co—149 Broadway
Special Universal Motor Co—2739 Third Ave
Sprague Electric Works—527 West 34th St
Star Electric Motor Co—111 West 23d St
Wagner Electric Mfg Co—30 Church St
Wald Electric Motor Co—417 Canal St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Belyea Co—145 W 18th St
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Bohn C C Electric Co—820 Sixth Ave
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const &Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—145 West 18th St
Cutter F B Co—50 Church St
Eisenberg General Con Co—149 Grand St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Manufacturers Equipment Exchange—Lafayette and Prince Sts
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Electrical Repair Co Inc—240-242 West 25th St
Florandin & Co Chas H—110 West 40th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
International Steam Pump Co—115 Broadway
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St
Walsh Electrical Supply Co (Household)—275 Madison Ave

Signs Electric

Bofinger Bros—146 East 42dSt
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L—560 Seventh Ave

Manufacturers and Agents (Continued)

Universal Elec Stage Lighting Co (Kliegl Bros) —240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 Church St
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1123 Broadway

Specialties

Betts & Betts Corp (Fuses-Refillable)—511 West 42d St
Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers) —1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes) —114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 E 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dreyfuss Co P M—150 Chambers St
Duntley Products Sales Co—9 E 35th St
Duparquet Huot & Moneuse—108 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Frost Samuel—41-43 W 14thSt
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Co—23 W 37th St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Simpson P—138 W 116th St
Sloane W & J—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—47 W 42d St
Tuec Company The—103 Park Ave
United Electric Company—103 Park Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St.
Lightolier Company—569 Broadway
Lindstrom Smith, Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanitax Elec Co—143 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simpson P—138 W 116th St
Special Universal Motor Co—2739 Third Ave
Trainor S George—47 W 42d St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St

Washing Machines

Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn
Bell Harry A—47 West 38th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Domestic Laundry Equipment—224 W 26th St
Dreyfuss Co P M—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—46 E 41st St
Home Devices Corp—11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—23 W 37th St.
Laun-Dry-ette Sales Co—36 W 37th St

Manufacturers and Agents (Concluded)

Lightolier Co—569 Broadway
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co —35 Vestry St
Pittsburgh Gage & Supply Co—119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simpson P—138 W 116th St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—110 W 40th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Crannell Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Irish W F Co—130 W 32d St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell, Nugent & Kranzer Inc—110 W 30th St
Duparquet, Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Killoch David Co—57 Murray St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 196—M Zuckman
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Duane St 172—Jas F Hughes Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 130—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Grand St 149—Eisenberg General Con Co
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co
Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Varick St 203—Riccio Electrical Contractors
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee

Wiring and Installation Contractors (Continued)

West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

East Side District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 141—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1123—William J Shore
Broadway 1168—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 9th St 320—Endig Electrical Works
East 13th St 2—B W Sandbach & Co
East 14th St 207—John Ryffel
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—Wm Fredericks
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 18th St 145—Belyea Company
West 20th St 241—Reliance Elec Inspection Co
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker Electric Co
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 41st St 112—E F Rusie
East 42nd St 239—Hudson Elec Eng Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 903—Chas Weinz
Eleventh Ave 430—McLeod Ward & Co
Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 405—Nathan C Solomon
Lexington Ave 605—John Jay Bauer
Madison Ave 407—Manhattan Elec Cont Co
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 605—"B" Electric & Hardware Co
Third Ave 731—Metropolitan Electric Co
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 37th St 23—Kimball Elec Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 112—J F Delahant Elec Sales Corp
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 47th St 102—Rand Electric Shops
West 48th St 244—M Schweiger & Co Inc
West 52d St 306—Strauss & Company Inc
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 79th St 185—D M Rousseau
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
East 95th St 156—Edward Zenker
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

Wiring and Installation Contractors (Concluded)

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2490—J F Delahant Elec Sales Corp
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
East 125th St 77—Peter Jansen
East 125th St 163—F J Rush
Park Ave 1630—Wimpie Electric Co
Park Ave 1763—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 141st St 470—Dorler & Domis
East 152nd St 726—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Morris Park Ave 685—M Wm Smith
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2739—Special Universal Motor Co
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 441—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 11½— S W Mills
East Fordham Road 273—Endig Elect Works
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barclay St 109—Spilger Electric Co
Barrow St 25—Jos Torre
Beaver St 21—J Hillgardner & Son
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beekman St 74—Jordan Bros
Beekman St 96—Naumer Electric Co
Bleecker St 13—Schwartz & Blumengarten
Bleecker St 63—Harry Hyman
Bleecker St 122—A Epstein
Bleecker St 178—Rocco Secco
Broad St 39—Beaver Electric Co
Broad St 41—Industrial Supply Co
Broad St 68—Broad Equip Co of N Y
Broad St 122—Stewart Dickson & Co
Broadway 1—William Vautin
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Elec Co
Broadway 335—Monowatt Elec Import Co
Broadway 371—Rabinowitz & Kluger
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 435—Radiant Electric Lmp Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broadway 583—Eclipse Light Co
Broadway 652—New Era Appliance Corp
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 243—Van Ben Thuysen Robt Co Inc
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son

Authorized Mazda Lamp Agents (Continued)

Centre St 196—Max Zuckman
Centre St 211—Patterson Gottfried & Hunter
Centre St 231—Worth Electric Co
Chambers St 101—Broadway Hardware Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Church St 30—Wm Braun
Church St 30—E A Delaney
Church St 30—P A McGuire
Church & Vesey Sts—Metropolitan Hardware Co
Cleveland Pl 25—Globe Electric Co
Coenties Slip 13—Jos J Keegan & Co
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 38—Fred Kraft Inc
Cortlandt St 39—W S Broadhurst
Cortlandt St 84—Bleyle Electric Co
Cortlandt St 86—A E Gelling
Dey St 48—John J Leahy
Dey St 65—M K Bowman-Edson Co
Duane St 23—Empire Elec Co
Duane St 172—James F Hughes Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 52—Flitner Atwood Co
Front St 54—Ocean Ship Chandlery Co
Front St 62—William E Williams
Front St 124—Charles Davidson
Front St 162—W S Pendleton Jr & Co
Front St 194—E George & Co
Fulton St 25—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 96—David Perlman
Fulton St 105—Montgomery & Co
Fulton St 110—Marlen Hdwe Co
Fulton St 226—International Elec Co
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Gold St 46—Van Axen Elec Co
Grand St 176—North American Chandelier & Supply Co
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 211—Interborough Lighting FixtureCo
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt Watts & Tankard Co Inc
Greenwich Ave 17—Nathan Staulsky
Greenwich St 25—Wm Storms
Greenwich St 86—Wm Claman
Greenwich St 255—G M Ross
Greenwich St 460—A F Beckman & Co
Hudson St 207—James D Mills
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 84—Alfred Whiteley Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 120—Chas W Osburg Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 120—Welborne & Co Inc
Liberty St 123—Smith-Meeker Eng Co
Liberty St 126—Thomas & Johnson
Liberty St 133—Chas W Leveridge Inc
Maiden Lane 90—Palo Co
Maiden Lane 91—Weber & Jones
Mercer St 305—Ensor & Co
Mott St 44—Quong King Long Co
Murray St 23—Stanley & Patterson
Murray St 43—Conlan Electric Co
Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Murray St 70—Gen'l Gas Arc Maintenance & Elec Co
Nassau St 20—Jas O Oliver & Co
Nassau St 82—Rudolph Weidhofer
Nassau St 145—N Y Supply & Inspection Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 163—Advanced Elec Lamp Co
Pearl St 35—Henry A Kissel & Co
Pearl St 116—Kelting Electric Co
Pearl St 187—Elite Elec Co
Pearl St 399—East Coast Elec Sup Co
Prince St 44—Louis Iorio
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Rector St 26—Rector Electric Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 82—Eastern Electric Works
South St 32—Wm H Swan & Sons
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Stanton St 49—J N Grossman
Stone St 11—S W Coston & Co
Sullivan St 29—Bayne Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co
Varick St 203—Riccio Electrical Contractors
Vesey St 59—L Gabler & Son
Vesey St 45—Casey Naser Elec Co
Vestry St 35—Northwestern Electric Equip Co
Vestry St 80—R J Masbach
Warren St 8—Bozart Lighting Co
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 67—Northern Elec Co
Warren St 77—Parr Elec Co
Warren St 97—Wm E Glaeser
Warren & Church Sts—Perlman Auto & Cycle Supply Co
Washington St 25—Whitehall Elec Co
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
Water St 52—Lund & Miller
West Broadway 152—Wheeler & Lent
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 484—Chas R Ruegger
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West Broadway 566—Davis Freeman
West St 90—C C Galbraith & Son
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
White St 39—Wm Rouguett
Whitehall St 27—G Ziniti & Co
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
Wooster St 33—Paul Silverstone
Wooster St 176—Jos Kerne

Authorized Mazda Lamp Agents (Continued)

East Side District

Avenue A 196—F W Schneider
Avenue D 2—The New Interboro Electric Co
Ave D 2—Yorkville Elec Fixt Co
Bowery 118—United Incandescent Gas Light Co
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 135—Eureka Lighting Fixt Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Fix Co
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 250—Metro Lighting Fixt Supply Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 272—Louis Rice
Bowery 273—Beacon Sales Co
Bowery 280—United Lighting Fixture Co
Bowery 327—A Klorman
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—Pioneer Lighting Fixture Co
Broome St 327—N Y Gas Light Co
Clinton St 91—A Z Electrical Supply Co
Delancey St 84—Frank Silverman
Delancey St 102—Rubin Bros
Division St 87—Soffen Brothers
Division St 133—Lincoln Cont Co
East Broadway 88—Minkowitz & Cohen
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 93—I Berkowitz
East Houston St 170—D Stein
East 2nd St 86—Samuel Konowitz
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 36—Max Leaf
East 4th St 69—Eastern Electric Works
East 4th St 75—Charles Lipschultz
East 4th St 128—Isadore Schajowicz
Essex St 62—Public Elec Supply House
Essex St 172—W Katz
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 142—J Zucker
Forsyth St 182—Ben Goldberg
Henry St 121—James Drucker
Monroe St 11—Anglo Amer Elec Co
New Chambers St 4—Louis Purcaro
New Chambers St 22—Clover Electric Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 70—Goran Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Pike St 30—Freeman Bros
Rivington St 265—M Franzblau
Second Ave 73—J Brown

Irving Place District

Bible House 75—N H Bresel
Bible House 78—T C Miller
Broadway 1123—Wm J Shore
Broadway 1155—Empire Electric Co
Broadway 1168—Alliance Elec Co
Christopher St 41—W Buch
Cooper Sq 32—L Barth & Sons
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 8 St 31—N Y Elec Motor Exchange
East 9th St 43—Superior Elec Co
East 9th St 57—George Murphy
East 10th St 30—Spero & Cohen
East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 13th St 34—A L Todd
East 14th St 7—William Landau
East 14th St 10—Acme Electric Co
East 14th St 10—Automatic Awning Control Device Corp
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 17th St 18—Metropolitan Elec Lamp Co
East 22d St 18—Consumers Elec Lamp & App Co
East 22d St 27—Charles Elec Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 28—A Marchard
East 23rd St 119—Cross & Cross
East 23rd St 131—Chas Besler & Co
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 112—Miller Elec Co
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 109—Aaron Silk
Eighth Ave 153—The Marcus Store
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 378—Wm Purdy
Fifth Av 63—Edison Lamp Service Co Inc
Fifth Ave 75—H M Walter
Fifth Ave and 26th St—Park & Tilford
First Ave 312—A Koppeman
Fourth Ave 108—I Gluck
Fourth Ave 121—Borough Elec Co
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 7—David Greenfield
Ninth Ave 277—Isaac Brand
Second Ave 396—A Rose
Seventh Ave 182—Finkelstein Bros
Seventh Ave 189—E Christensen
Seventh Ave 219—Subway Hardware Co
Seventh Ave 227—The Little Electric Co
Seventh Ave 243—Keppler Bros
Seventh Ave 296—B Adler
Sixth Ave 164—McGeady Electric Co
Sixth Ave 182—Chas H Bingler
Sixth Ave 183—M A Karp
Sixth Ave 379—Sandback-Gilbert Elec Co
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—Acorn Electric Cont Co
Stuyvesant St 14—Julius Kupatt
Third Ave 184—Henry Green
Third Ave 384—D B Pershall & Son
Union Sq 32—Leco Elec Lamp Co
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 107—Dale Ltg Fix Co
West 13th St 408—Bullock Mfg Co
West 14th St 41-3—Sam Frost
West 14th St 112—Raphael Morris & Co Inc

Authorized Mazda Lamp Agents (Continued)

West 14th St 131—Harry J Mabs
West 14th St 132—Acme Lighting Fixture Co
West 14th St 232—Wm H Crary
West 14th St 249—Alexander Stock
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 15th St 22—Simes Co
West 16th St 4—Central Elec Supply Co
West 16th St 111—E Korkes
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 44—Rambeau & Sheflin
West 17th St 46—W & T Machine Co
West 17th St 48—Beidner Elec Co
West 17th St 102—Perlman Elec Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 148—Keystone Elec Lamp Co
West 17th St 227—Lighting Eng Service Co
West 19th St 25—Horowitz & Leff
West 19th St 40—Lewis Harbitter
West 19th St 263—Radice Elec Co
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 120—Reliable Sewing Machine & Electric Co
West 20th St 241—Reliance Electric Inspection Co
West 21st St 9—Ferber Electric Co
West 21st St 66—D C Electric Co
West 21st St 126—Morris Gika
West 23rd St 113—Uneeda Elec Co
West 23rd St 235—Eastman Kodak Co
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Goodman Jablon
West 25th St 105—Samuel Vogel
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1178—Electro Magnet Co
Broadway 1215—Columbia Elec Co
Broadway 1215—B W Glick
Broadway 1270—A Rescher
Broadway 1288—Electro Magnet Co
Broadway 1358—Siems & Co
Broadway 1368—Arrow Electric Shop Inc
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Brackett & Colt
Broadway 1400—Consolidated Projector Co
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1416—H R Lockwood Co
Broadway 1476 Suite 1013—American Electric Construction Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
East 29th St 34—Albin Gustafson Co
East 29th St 41—S H Kline
East 30th St 2—Simpson Electric Co
East 32nd St 19—R E Leve
East 34th St 211—Paul Prodromides
East 38th St 202—Sussman & Sussman
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 41st St 104—J Livingston & Co
East 42nd St 18—Herbert & Huesgen Co
East 42nd St 146—Bofinger Bros
East 42nd St 236—H F Electric Co
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 44th St 203—Grand Central Eng Co
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 17—Black & Boyd Mfg Co
East 48th St 201—Tiedelmann & Bohrer
East 50th St 417—Emanuel Elec Equipment Co
East 57th 206—Paul F Weinbeer
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 150—J L Goodrich
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
East 59th St 241—S A Ecker
Eighth Ave 368—Luft & Luft
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Building—Concourse Electric Shop
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave 581—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Lexington Ave 769—Colonial Gvt & Elec Cont Co
Madison Ave 275—Walsh Electric Supply Co
Madison Ave 367—Tiffany Studios
Madison Ave 407—Melville H Bettman Corp
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 619—Frankle Alffias
Madison Ave 631—Kellog & Bertine
Ninth Ave 630—Nathan Marks
Ninth Ave 574—Harold Buckingham
Ninth Ave 875—Wm D Munro
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Chas J Conklin
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Second Ave 1111—New Bank Elec Supply Co Inc
Seventh Ave 358—Bazaar Franko American
Seventh Ave 468—Bank Elec Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Seventh Ave 729—Howell's Cine Equipment Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Seventh Ave 830—P Lotwin
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 635—John J Finn

Authorized Mazda Lamp Agents (Continued)

Sixth Ave 636—Fred B Zender
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & CoInc
Sixth Ave 907—Harris Schwartz
Sixth Ave 947—JohnW Flint
Sixth Ave 982—Edw Nicholson
Sixth Ave 1009—John T Whitehead
Sixth Ave 1039—Mt Morris Auto Sup Sta
Tenth Ave 425—Ace Electric Co
Tenth Ave 486—Geo E Valley & Bro
Third Ave 400—Irving Kenner Co
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 444—Fred Hardy
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 497—Manhattan Hdwe & Tool Corp
Third Ave 518—Davis Bros
Third Ave 602—E G Schwarz
Third Ave 605—"B" Electric & Hdwe Co
Third Ave 631—Chelsea Electric Co
Third Ave 647—Julius Gabler
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co
Third Ave 766—Adolph Raffner
Third Ave 767—Premier Emergency Corp
Third Ave 918—Sidney Frey
Third Ave 959—Frise & Jantzer
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 29th St 103—Keystone Elec Co
West 30th St 22—Madison Elec Supply Co
West 30th St 23—Guarantee Sewing Mach Co
West 30th St 62—Boris Pedell
West 30th St 110—Crannell Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 128—Joseph Gershon
West 30th St 151—Alpha Electric Co Inc
West 31st St 23—Louis Freund
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 32nd St 110—C. G. Willoughby
West 32nd St 130—W F Irish Co
West 33rd St 2—Ideal Elec Cont Co
West 33rd St 25—Harry Alexander
West 33rd St 221—E J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—H Alexander
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 35th St 147—N Y Elec Installation Co
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 248—Knapp Ritzner Co Inc
West 35th St 419—Gordon & Koppelson
West 36th St 126—Metropolitan Elec Sup Co
West 37th St 36—Gotham Elec Co
West 37th St 58—Roesser Studios Inc
West 38th St 66—Herald Lamp Service
West 40th St 105—Publicity Clock Co
West 40th St 108—World Lighting Appliance Co
West 40th St 143—Smith Elec Co
West 41st St 103—Teale Supply Co
West 41st St 243—R Kast
West 41st St 252—Starr Elec Co
West 42nd St 13—Chas T Henry
West 42nd St 101—Herald Sq Elec Co
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J FDelahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 121—Empire Lighting Fixture Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 316—Mitchell Borna
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 442—Sharlow Bros Co
West 42nd St 529—Park & Tilford
West 43rd St 267—Eagle Elec Co
West 44th St 314—Display Stage Ltg Co
West 46th St 63—Thomas B Adams
West 46th St 142—Capitol Motion Picture Sup Co
West 46th St 150—Crown Motion Picture Sup
West 46th St 459—Continental Elec Contracting Co
West 47th St 102—Rand Electric Shops
West 48th St 304—Joseph Beck
West 47th St 310—H J McKinnon
West 48th St 168—Progressive Poster Exchange
West 48th St 244—M Schweiger & Co Inc
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52nd St 136—Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 301—Rialto Electric Shop
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 413—Frank Pisch
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 54th St 413—E G Clarke
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 71st St 432—H Schultz
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 140—Jos Schwartz
East 79th St 185—D M Rousseau
East 84th St 158—Gabriel Erdos
East 86th St 341—L S Metzger
East 95th St 156—Edward Zenker
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1461—Fuld & Fuld
First Ave 1756—Chas H Bayer
Lexington Ave 1026—Kendelhardt & Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros

Authorized Mazda Lamp Agents (Continued)

Madison Ave 806—Madison Elec Co
Madison Ave 922—Paul Sawallisch
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haberman Bros
Madison Ave 1122—S Shearn
Madison Ave 1182—DoWell Elec Co
Madison Ave 1519—Jacobson & Feldherr
Madison Ave 1532—Stein-Horowitz Hdwe Co
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Contr Co
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Park Ave 1086—S Littman
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1629—Nathan Eisenberg
Second Ave 1828—Zoltan Hartmann Elec Co
Second Ave 1838—P Stein
Third Ave 1011—J M Kohlmeir
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Ias Gear
Third Ave 1286—F & B Electrical Co
Third Ave 1298—J Rappaport
Third Ave 1311—Bloch Hardware Co
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1545—N W Altman Co.
Third Ave 1573—B Wankel & Son
Third Ave 1636—Benjamin Phillips
Third Ave 1658—Electrical Maintenance Co
Third Ave 1912—H Rose
Third Ave 1871—Louis Nathan

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 206—Automotive Elec Serv Corp
Amsterdam Ave 326—I H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 767—Frank Hanken
Amsterdam Ave 788—Louis Mantel
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849—LHoffman
Amsterdam Ave 868—Sacks & Blum
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—M Connolly
Amsterdam Ave 943—P T Dunn
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Markle Hardware Co
Amsterdam Ave 989—Marcus & Klein
Amsterdam Ave 1084—Samuel Garnter
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1632—Edward T O'Neill
Amsterdam Ave 1641—Gold Rose Hardware Co
Amsterdam Ave 1710—Thos Gilmartin
Amsterdam Ave 1762—James M Adler
Amsterdam Ave 1814—Louis Flato
Amsterdam Ave 1955—Ginsberg Bros
Amsterdom Ave 1975—Mishkin & Ferber
Amsterdam Ave 2141—Julius Kramer
Amsterdam Ave 2153—D Popkin
Amsterdam Ave 2232—Samuel Greenberg
Amsterdam Ave 2266—John A Dunn
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1987—King Tire Co
Broadway 2104—Modern Ltg Co
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2247—Schlesinger & Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2383—Wasself Pharmacy
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 112th St—Park & Tilford
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3499—Citron Bros
Broadway 3633—Citron Bros
Broadway 3817—Citron Bros
Broadway 3850—Samuels & Rose
Broadway 3906—M Lewis Inc
Broadway 4929—G N Russell
Columbus Ave 26—Esser & Kutzman
Columbus Ave 26—Magneto Elec Generator Co
Columbus Ave 144—E May Inc
Columbus Ave 189—Budnick Bros
Columbus Ave 196—Columbus Elec Co
Columbus Ave and 72d St—Park & Tilford
Columbus Ave 220—T F Carr
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower

Authorized Mazda Lamp Agents (Continued)

Columbus Ave 505—W J Keogh
Columbus Ave 517—Sam Millinger
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—Alexander C Paterson & Son
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 900—Gossler Bros
Columbus Ave 925—Amsterdam Elec Supply Co
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Sup Store
East 112th St 173—Behl Electric Co
East 113th St 21—Modern Elec Cont Co
East 116th St 12—J Alpert
East 116th St 85—Prompt Elec Ser Co
East 116th St 204—Empire Gas & Elec Fix Co
East 118th St 309—S W Hurowitz
East 120th St 165—Stein Mfg Co
East 125th St 163—F J Rush
Eighth Ave 2073—Phil Epstein
Eighth Ave 2137—I Sussman
Eighth Ave 2187—L S Metzger
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2441—A E Jackson
Eighth Ave 2662—D Enzelson
Eighth Ave 2704—Lazar Schein
Eighth Ave 2752—E Kramer
Fifth Ave 1410—S J Eisner
Fifth Ave 2036—Frederick Klein
Hancock Place 3—Progressive Electric Co
Lenox Ave 22—Morris Perla
Lenox Ave 151—L Hershowitz
Lenox Ave and 126th St—Park & Tilford
Lenox Ave 346—Herman Young
Lenox Ave 394—S. Lichtenstein
Lenox Ave 403—Lenox Elec Co
Lenox Ave 468—Frank & Meyers
Lenox Ave 523—J Soffen
Lenox Ave 603—Herman Pinkiert
Lenox Ave 624—P J Gold
Lexington Ave 1855—K & H Co
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1806—Madison Elec Co
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 69—Weil Bros
Park Ave 1630—Wimple Elec Co
Park Ave 1763—C V Gedroice & Co
Park Ave 1889—Gristede Bros Inc
Park Ave 1930—S Mayer
Second Ave 2236—A Freeman
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 169—J & S Elec Co
St Nicholas Ave 169—Maurice M Schneck
St Nicholas Ave 1121—Arrow Elec Shop Inc
St Nicholas Ave 1281—Nathan Schutte
St Nicholas Ave 1322—Chapoff & Nachamkin
St Nicholas Ave 1368—Le Mar Supply Co
St Nicholas Ave 1422—Manhattan Lamp Service Co
St Nicholas Ave 1511—I Selly
St Nicholas Ave 1599—Elec Appliance Shop
St Nicholas Ave 1617—Henry Green
Third Ave 2098—Iron Spec Co
Third Ave 2257—Alex Koudelman
Third Ave 2352—Chas Mann & Co
Third Ave 2739—Special Universal Motor Co
West End Ave 165—F W Astarita
West 66th St 161—Leo Strus
West 70th St 104—Samuel Moses
West 70th St 236—S A Friedman
West 72nd St 176—Kaufman & Burkert
West 83rd St 121—C J Christesen
West 99th St 237—I Davis
West 116th St 138—P Simpson Inc
West 116th St 244—Schnabel Bros
West 118th St 430—Morningside Elec Supply Co
West 125th St 127—Manhattan Elec Supply Co
West 125th St 215—M J Heller Elec Co
West 126th St 301—M F Petters
West 135th St 107—C M Moten
West 135th St 493—Dominger Engineering Co

Bronx (Melrose District)

Boston Road 1168—N Goldman
Boston Road 1304—Mayo Lighting Fixture Co
Boston Road 1721—S Langer
Brook Ave 172—S Dworkin
Burnside Ave 4—F B Electric Co
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 142nd St 781—Wilson Maeulen Co
East 149th St 358—Weber Supply Co
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 432—Wm Wilkening
East 149th St 448—A Dessner
East 152d St 726—Joseph B Josephson
East 152nd St 739—Gustav Abramowitz
East 152nd St 835—J Lowe
East 153rd St 404—Joseph Mancusi
East 160th St 770—Jacob Garten
East 160th St 816—Pellar & Gates
East 161st St 615—J F Smith
East 162nd St 860—Unit Elec Co
East 163rd St 736—Sayles Electric Co Inc
East 163rd St 950—Max Maged
East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—M Finklestein
East 167th St 460—M Schwarzler
East 169th St 535—B Weiss Electric Co
East 169th St 638—Max Berminer
East 169th St 936—Mathew Sussman
East 177th St 1753—C H Wallace
East 180th St 708—C J Segaitz
Freeman St 860—Sidney Cannold
Freeman St 879—D Hass & M Posman
Intervale Ave 882—Topal & Son
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 972—Adolph Greenblat
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mahler Electric Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss

Koppel Industrial Car & Equipment Co—30 Church St
Lakewood Engineering Co—139 Centre St
Lansing Company—492 Broome St
Mercury Manufacturing Co—25 Church St

Passenger Cars

Detroit Electric Car Co—20 Central Park West
Rauch & Lang Inc—17 Central Park West

Storage Battery Charging Apparatus

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Edison Thomas A Inc—141 Lakeside Ave Orange N J

West Side Garage—529-41 West 23rd St
East Side Garage—141 East 25th St
North Side Garage—West End Ave & 64th St

Passenger Cars

Electric Garage The—Central Park West & 62nd St

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St

Manufacturers and Agents (Continued)

Mechanical and Battery Parts (Concluded)

Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building—Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St
Witherbee Storage Battery Co—643 W 43d St

Buffers—Polishers

Barker John H—95 Liberty St
Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway
Western Electric Co—151 Fifth Ave and 105 W 40th St

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—73 Front St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Conveyors

Alvey Ferguson Co The—110 West 40th St
Alvey Manufacturing Co—105 West 40th St
Brown Portable Conveying Machinery Co—30 Church St
International Conveyor Co—50 East 42nd St
Jeffrey Mfg Co The—50 Dey St
Lamson Co The—15 West 44th St
Mathews Gravity Carrier Co—50 Church St
Robins Conveying Belt Co—13 Park Row
Rownson Drew & Clydesdale Inc—68 William St
Standard Conveyor Co The—227 Fulton St

Cranes, Hoists and Winches

Alfred Box & Co Inc—Woolworth Building
Alliance Machine Co—Alliance Ohio (No New York Office)
American Hoist & Derrick Co—50 Church St
Brosius Edgar A—Pittsburgh Pa (No New York Office)
Brown Hoisting Machinery Co—50 Church St
Browning & Co Victor R—480 Lexington Ave
Champion Engineering Co The—149 Broadway
Chesapeake Iron Works—Woolworth Bldg
Cleveland Crane & Engineering Co—50 Church St
Clyde Iron Works—141 Centre St
Hayward Co The—50 Church St
Heyl & Patterson Inc—90 West St
Industrial Works—50 Church St
Lidgerwood Mfg Co—96 Liberty St
Link Belt Co—299 Broadway
Maine Electric Co—26 Cortlandt St
Manning Maxwell & Moore Inc—119 W 40th St
McMyler Interstate Co The—50 Church St
Mead Morrison Mfg Co—149 Broadway
Michener Stowage Co—17 Battery Place
New Jersey Foundry & Machine Co—90 West St
Northern Engineering Works—120 Liberty St
Shepard Electric Crane & Hoist Co—30 Church St
Sprague Electric Works—527 West 34th St
Terry Mfg Co Edward F—Grand Central Terminal
Wellman-Seaver-Morgan Co The—50 Church St

Dishwashing Machines

A & A Electric Co—535 Seventh Ave
Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Duparquet Huot & Moneuse—108 W 22nd St
Fox Electric Corporation—119 W 42d St
Gould Appliance Co—7 West 42nd St
Livingston, J & Co—104 E 41st St
Phillipson Emil—110 W 40th St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St
Whitehead J T & Son—1009 Sixth Ave

Drills and Grinders (Portable)

Arnold Elec Tool Co—114 Liberty St
Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
New York Stage Electric Equipment & Reflector Company—108 West 34th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa—47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf)—303 Fifth Avenue

Manufacturers and Agents (Continued)

Electro-Therapeutic and Dental Apparatus (Concluded)

Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Morison Electric Supply Co—15 E 40th St
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanitax Elec Co—143 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
Electrical Repair Co Inc—240-242 West 25th St
Elevator Supplies Co Inc—1515 Willow Ave Hoboken N J
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)
Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Revolvator Company—Jersey City N J
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Watson Elevator Co—407 West 36th St
Wheeler McDowell Elev Co—97 Varick St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Star Electric Motor Co—111 West 23rd St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Washington Pump & Machinery Corp—115 Broadway
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fans Rented

Strauss & Co L L—560 Seventh Ave

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bohn C C Electric Co—820 Sixth Ave
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Cincinnati Specialty Mfg Co—39-41 Cortlandt St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Frost Samuel—41-43 W 14th St
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.

Manufacturers and Agents (Continued)

Fixtures and Portables (Concluded)

Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morison Electric Supply Co—15 E 40th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Penn A C—Singer Building
Phenix Lighting Fixture Co—144 Bowery
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Robin Lighting Fixture Co—47 Warren St
Roeser Studios Inc—58 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way
Western Electric Co—151 Fifth Ave and 105 W 40th St

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St
Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY
Western Electric Co—151 Fifth Ave and 105 W 40th St

Heating and Cooking

A & A Electric Co—535 Seventh Ave
American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dover Mfg Co—30 Church St
Dreyfuss Co P M—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads)—41st St and Madison Ave
Landers Frary & Clark—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Special Universal Motor Co—2739 Third Ave
Trainor S George—47 West 42nd St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Dreyfuss Co P M—150 Chambers St
Fox Elec Corporation —119 W 42d St
Gould Appliance Co—7 West 42d Street
Hart Wallace B—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Livingston J & Co—104 E 41st St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Grand Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St

Lists Continued on Page 213

July 1920

Park Row in 1840

VOLUME 12

CONTENTS

NUMBER 7

The Electrical Directory

	Page
Department Stores	193
Manufacturers and Agents	193
Crystal Machine Company	212
Wiring and Installation Contractors	215
Authorized Mazda Lamp Agents	217
Edison District Offices with Map	Inside Back Cover

The Edison Monthly

	Page
Editorial	198
On Location	199
An Electrical Pioneer	202
Construction of the Cunard Building (photograph)	204
The Seaboard Bank (photograph)	205
Cold Comfort	206
Material Handling Machinery at the Electrical Show	207
Village Days	208
An Axe to Grind (Verse)	210
Buttons (Verse)	211

Copyright 1920, by The New York Edison Company

The Edison Monthly

Published by

The New York Edison Company

General Offices

Irving Place and Fifteenth Street

New York City

N F Brady, President
Walter Neumuller, Secretary
Frederick Smith, Treasurer

Reports from Paris of the prevalence of street hold-ups during the period of restricted street lighting indicates the close relation between darkness and crime. The conditions in Paris recall the statement, credited to Colonel Roosevelt when he was Police Commissioner, that a street light was as effective as three patrolmen in checking hold-up men.

In a recent article, the correspondent of the New York Tribune gives an account of the Paris crime wave and of the methods of the Apaches.

"Paris is not lighted as it was before the war and now the shortage of coal is forcing the authorities to a further reduction in the number of lights. Won't this have an effect on crime?" the correspondent asked M. Cassellari of the Paris Police.

"There is nothing more certain," was the reply. "Nothing is more common nowadays than the snatching of ladies' satchels at night time. Sometimes as many as eighty complaints of bag-snatching are lodged in one day."

New York has had its share of robberies during the past months. There have been bond thefts, daylight robberies and burglaries. Yet with it all, there have been comparatively few reports of the activities of foot-pads. As these gentry depend largely on the protection of darkness to cloak their schemes, the inference is that New York's street lighting is an effective protection against this form of crime.

The Wiring Committee of the National Electric Light Association reports a development in house wiring that will undoubtedly have a far reaching effect. Under the new method, wall and ceiling outlets are finished in such a way that the removal of a fixture or bracket may be accomplished by merely separating an attachment plug. The hanging of a new chandelier is just as simple an operation.

Under the old method, the rough ends of the lighing circuit were left projecting through the ceiling outlet. To hang a fixture meant that these ends had to be soldered, to the wires of the fixture.

Under the new plan there will be no soldering of wires—simply the insertion of the familiar attachment plug. The new method has been very aptly compared with that of hanging a picture. There are several other advantages. The wireman will leave a finished job; it will enable a houseowner to take his lighting equipment with him when he moves; it will be possible to substitute equipment of less elaborate design during the summer months; it will be easy to change fixtures whenever the decorations of the room are changed; and in the case of side-wall brackets it will be an easy matter to detach the bracket when the outlet is needed for the vacuum cleaner or other electric appliance.

On Location

AMONG the nation's great industries there is none of recent development which has become so much a part of our daily national life as has the moving picture. Are any names in this country better known to both young and old than Pickford, Fairbanks, Chaplin, or Hart? Yet the industry which gives these names their prominence is still but a comparatively few years old.

Thomas Edison brought out the kinetoscope in 1893. This was a machine operated by hand or by motor for moving a transparent film in front of a lens through which the observer viewed a consecutive series of pictures. Developments in this machine allowed the image on the film to be projected by a lantern so as to form magnified images on a screen. Such was the predecessor of the modern moving picture machine.

With the development of the apparatus, the quality and style of the picture has also developed. So that whereas, in the beginning, and while motion pictures were a sensational novelty, little else than the simple fact of motion was relied upon to create interest, now photoplays of great elaborateness are filmed. The

Photograph by The New York Edison Company

Sulzer's Harlem River Park Which Has Recently Been Remodeled by the International Film Company

public soon grew tired of fire engines and railroad trains and began to demand pictures that told stories.

As the industry developed, the number of people attending picture shows increased rapidly and the Nickelodeon came into being. More elaborate halls followed and finally the big theatre specializing in this form of entertainment.

In 1915 the average daily attendance was about five million persons. This number in 1919 had increased to fifteen millions. In 1915 it was estimated that about $400,000,000 was invested in the business in the United States. By 1919 this amount had reached the astounding sum of $800,000,000 and ten million feet of film were being shown each week. All of these figures have greatly increased since the close of the year. This increase may possibly have been influenced by the passage of the 18th Amendment, since it has been reported that in a western city of half a million inhabitants, the motion picture business doubled when the twenty-seven hundred saloons closed.

Although California with its cities devoted to the art produces the greater part of this country's films, the West does not monopolize the business by any means. In the East there are about twenty-two studios, many of them in and about New York City.

The Famous Players have studios in New York, and the old Amsterdam Opera House on Forty-fourth Street has recently been taken over by the Tribune Production Company. Sulzer's Harlem River Park has been remodeled by the International Film Company. The newest example of studio design in the East is that of the Fox Film Corporation at Tenth Avenue and Fifty-fifth Street. This is the largest motion picture producing plant under one roof in the world. At the Fox studio, as well as at all the others, the electric current is supplied by The New York Edison Company.

Photograph by courtesy of Famous Players-Lasky Corporation

Street Scene for Dr Jekyll and Mr Hyde Being Built in the Studio of the Famous Players-Lasky Corporation

When railway wrecks, cowboys, and Indians were in demand, studios were built where such pictures could be produced with the least trouble and expense. This was the beginning of the present studio cities in Cali-

fornia. Recent changes, however, in the type and quality of photoplays have been in the direction of more serious subjects and with a more lasting dramatic value. Great novels are being produced and popular plays of the legitimate stage are being shown on the screen. Naturally, then, in order to be at the great dramatic center of the nation, and so in closer touch with the more famous actors and actresses, more and more studios are being built in New York. It is for just these reasons that the Selznick Picture Corporation after July 1st will be producing entirely in the East.

Showing the Same Scene Completed. Note the Perfect Illusion of Night Made Possible by the Proper Arrangement of Electric Lights

Mr. Myron Selznick, President of the Corporation says: "We believe that the making of good pictures involves something more than ready access to beautiful exterior locations. The quality of a picture is primarily dependent upon the closest co-operation between a company's producing and distributing units. New York is the uncontested distributing center for pictures. In focusing all of our production activities in the East, we will enjoy the advantage of such cooperation as would be difficult, if not impossible, to achieve under any other plan."

The filming of "Dr Jekyll and Mr Hyde," the Paramount Artcraft picture of Robert Louis Stevenson's story in which John Barrymore is starred, was all done at the New York studio of the Famous Players-Lasky Corporation. Interior sets were used for the entire story, and so faithfully were the street scenes, typical of the days of 1860 in London, carried out, that the final effect when shown on the screen is perfection itself and makes it most difficult even for the initiated to realize that the whole thing is but clever carpentry and masonry work.

It has been through the application of electricity that the moving picture industry has been able to accomplish the great results it has achieved during the past few years. Spot lights, Kliegl lights, mercury-vapor lamps and semi-indirect top lights have all become necessary adjuncts in the electrical equipment of a modern studio.

Heretofore, or before the perfec-

tion of a system of electrical lighting adapted particularly for taking moving pictures, directors were slaves to weather conditions and much valuable time was lost awaiting the pleasure of the sun in order to obtain certain desired effects of lighting. Illuminating engineers, after many experiments, discovered that the spectrum of the electric arc most closely resembled that of the sun. These arcs were then used indoors to illuminate artificial, but amazingly realistic, outdoor scenes. The effect, when the pictures were thrown on the screen, was good and so partially released directors from their bondage to the sun.

The very latest development of the arc light for taking moving pictures fades other lights into comparative insignificance and produces an effect of actual sunlight which is probably as close to the solar light as ever will be discovered. With one of these new lamps, known as the Sun Ray Arc, a whole stage may be flooded with sunlight of varying degrees of intensity in accordance with the requirements of the scene.

The principal characteristic of the lamp lies in the fact that the positive two-inch carbon rotates and that both carbons are composed of a combination of such elements as thorium, titanium and cerium which produce the spectrum so closely approximating that of the sun.

While, therefore, California's justly famous sunshine may be the best natural light by which to take moving pictures, the East may boast of its electrical sunlight, which, in combining the unquestioned advantages of the Western sun, does not include its equally unquestioned disadvantages.

Whether or not the development of an indoor electrical sunlight and the possibility of filming in their entirety such pictures as the Stevenson masterpiece will bring film making leadership to this side of the country, time alone can tell. A start has been made and the electrician has not yet reached the end of his resources.

An Electrical Pioneer

Comparing the directory in the first issue of the Bulletin published by The New York Edison Company in January, 1902, with the Electrical Directory of today, two facts are worth observing. First, the directory in 1902 covered two pages of the Bulletin, whereas the present list is contained in sixteen pages of The Edison Monthly. Second, the number of electrical contractors as listed in 1902 was only seventy-three, while the list today contains two hundred and seventy names. This comparison indicates very plainly the growth and expansion of the electrical industry in this city.

It is interesting to note that among the contractors appearing in the list of 1902 there are a few who are still entered in our pages. Among these is Mr Whitehead Sr of Messrs J T Whitehead and Son, 1009 Sixth Avenue, who has been in the electrical business for forty-five years —almost two generations. One of the pioneer contractors of this city, he has seen the field grow from infancy to maturity and today watches keenly the further development of the gigantic undertaking which converts natural resources into energy

for man's use. Many have seen and been benefited by the changes electricity has wrought in the industrial and social world, but relatively few have been a part of its growth as has been Mr Whitehead.

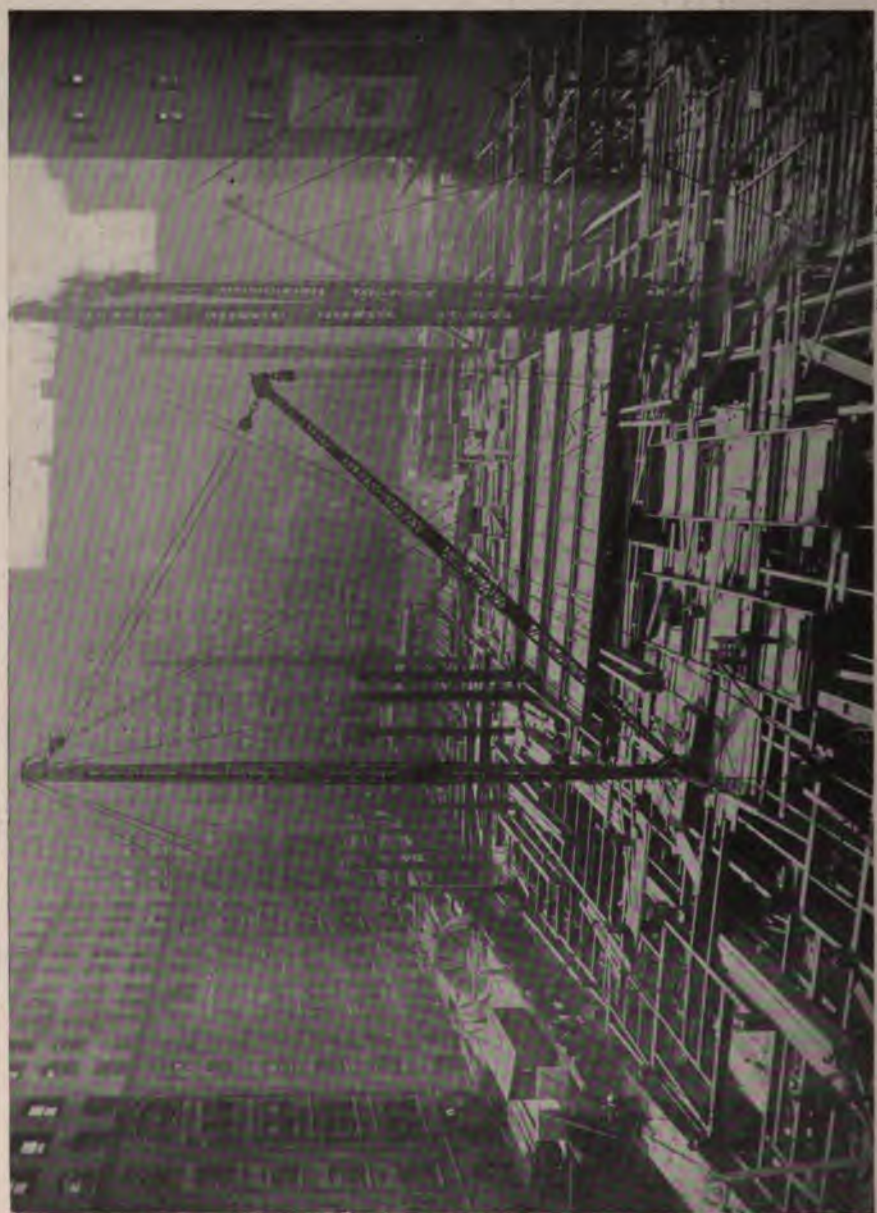
With the increased demand for current for lighting and industrial purposes and the consequent entrance of new contractors into the industry in various parts of the city, it naturally followed that various contractors associations should be organized. In these activities Mr Whitehead took a leading part. He was an enthusiastic member of The Contractors League of Greater New York, founded in 1900 to improve the establishments of existing contractors. When this league was later merged into The Independent Contractors Association of Greater New York he assisted in the consolidation and was elected the first president. Later he negotiated for the affiliation of this local body with the State Association.

Photograph by The New York Edison Company

Interior of the Electrical Shop of J T Whitehead and Son, 1009 Sixth Avenue

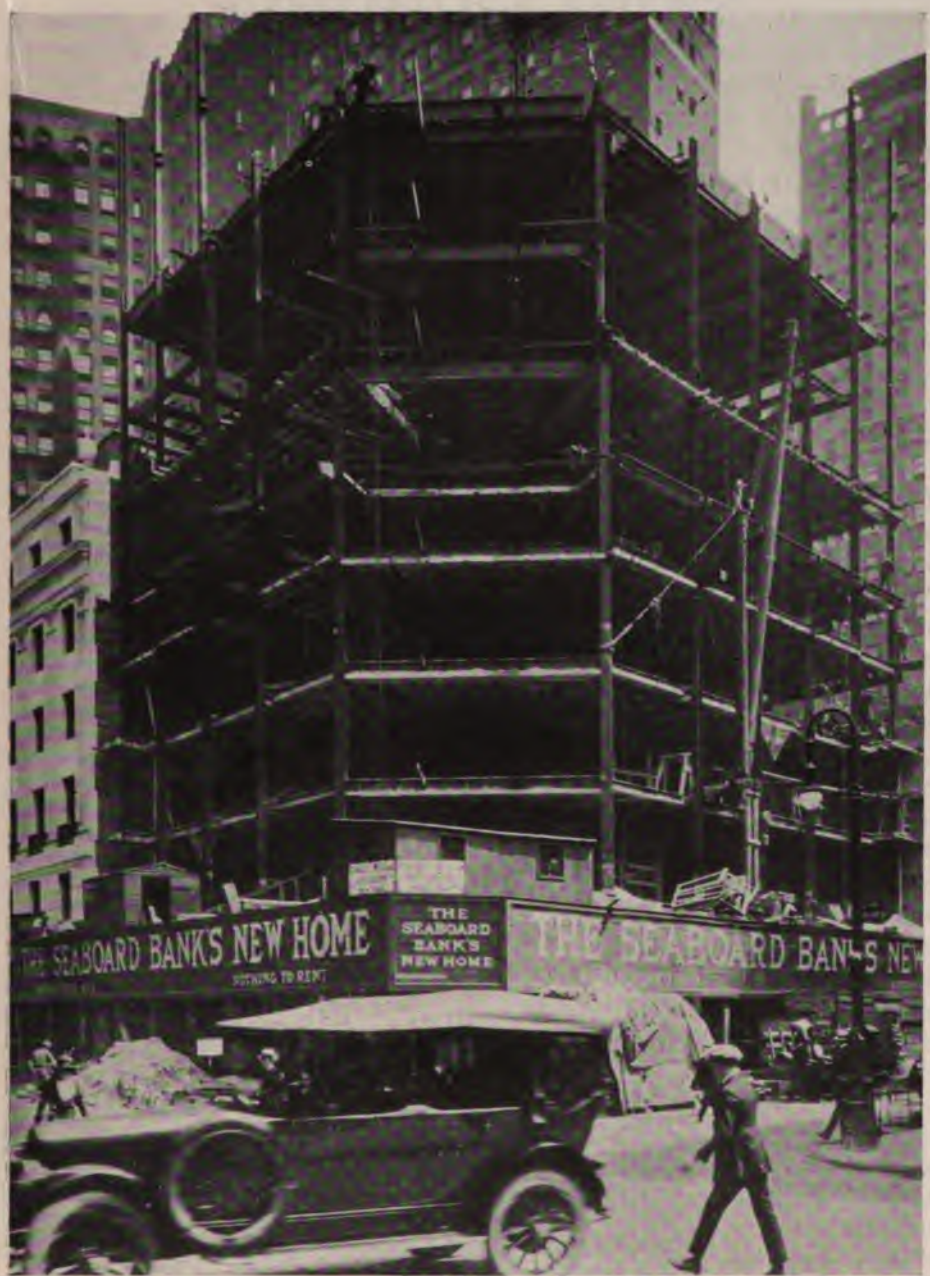
In this era of progressive development it is difficult to realize that there are men living today who served a long term of apprenticeship before they could operate their trade. Mr Whitehead was one of this number, opening his own contracting establishment in 1895, after having had twenty years' previous experience as an electrician. Since that time he has kept pace with new phases of the industry, introducing them into his own establishment as he saw fit. As a contractor-dealer he believes firmly in the merchandising policy for contractors.

Helpful coöperation has guided this concern through many years, and the faithful application of sound business principles has brought it the respect of patrons and associates.



Photograph by The New York Edison Company

After Months of Work Below Ground, the Steel Frame of the Huge Cunard Building at Bowling Green is Beginning to Rise Above the Street Level. Edison Service to the Extent of Fifteen Hundred Horse-power is Being Used in the Construction of this Twenty-one Story Building. After its Completion Edison Service will Supply an Electrical Installation of Seventeen Thousand Lamps and Three Thousand Horse-power in Motors



Photograph by The New York Edison Company

The Seaboard Bank at Broad and Water Streets is One of the Several New Buildings Being Erected Downtown which will Secure Current for Their Electrical Equipment from The New York Edison Company

Cold Comfort

Since the master servant, Electricity, has become more and more a fixture in well organized city homes, the problem of refrigeration along with other problems pertaining to housekeeping, has found a very simple solution. House cleaning and daily dusting are quickly done with the vacuum cleaner. Floors become spotless under the ministrations of an electric floor washer. In a remarkably short while the weekly laundry is washed and ironed by means of the electric clothes washer and the electric iron and mangle. Yards of material may be rapidly and neatly done by the electric sewing machine without loss of nervous energy to the seamstress. Electricity also attends to the cooking, and even washes the dishes. And now the electric refrigerator is performing an equally important duty.

Careful consideration should be given to the protection of foodstuffs under sanitary conditions by those whose responsibility it is to care for and prepare the daily meals. When a farmer's wife finds difficulty in obtaining an ice supply she uses the well or the cellar for an ice box. Perhaps her home nestles close to the ground so that the cellar walls extend into the cool earth which banks them on the outside, allowing no warm air to penetrate to the interior. Hams, pork in barrels, vegetables, fruits and preserves are fairly well protected at a moderately low temperature. In the spring house, milk in pans, butter, and cheese remain cool and

Photograph by The New York Edison Company

The Motor and Compressor Are In the Lower Compartment, while the Refrigerating Equipment Is In the Part Usually Set Apart for Ice

sweet or maybe there is a pail suspended in a deep well-shaft, containing butter fresh and firm, ready for table use.

The average city home, on the other hand, must be provided with a refrigerating outfit that will insure foodstuffs against unnecessary decay. A refrigerator that works independent of an ice supply and automatically maintains an even, low temperature and a circulation of dry air, is a sure and satisfactory device for household use. Bacteriological statistics show that germs breed in dampness even where the temperature is as low as 50 degrees F. Decay and consequent waste of food are eliminated with the installation of an electric refrigerator, for the air is free from moisture and a temperature of 32 degrees may be maintained.

Refrigerating equipment may be attached to the average icebox, or both box and equipment may be purchased together. In either case the results are satisfactory as well as economical. There are several different machines, but in general the operation is the same. Gases, liquified and cooled by the circulation of air or water, when expanded extract the heat from the surrounding medium in an effort to return to atmospheric temperature. The refrigerant has a low boiling point. In the process of being compressed by motor to a certain pressure, it is heated to a relatively high temperature. The hot gas, either sulphur dioxide or ethyl chloride, passes into a condenser where the heat of compression is abstracted from it, either by air or by water, and changes it into a liquid. The liquid passes into coils where it boils and becomes a gas again, taking the heat from the surrounding brine or air and producing the desired temperature for refrigeration. The operation is then repeated. The whole thing is automatically controlled and regulated by a thermostat. In spite of unusually warm weather and an uncertain ice supply the temperature of the box remains consistently low. Sunday's roast, purchased on Saturday, will not become tainted.

Electrical refrigeration, therefore, gives reliable results and the cost of maintaining it is moderately low.

Material Handling Machinery at the Electrical Show

Practically every type of machine used in handling freight shipments at the steamship piers and railroad terminals will be exhibited at the Electrical Exposition to be held at the Grand Central Palace during the ten days beginning October 6.

These exhibits, which are to be a special feature of the show, will be presented and demonstrated under the auspices of the Material Handling Machinery Manufacturers' Association, which has spared no pains or trouble in making this big industrial exhibit comprehensive to the last detail. Parts of the main floor and practically all of the third floor have been set aside for this demonstration.

Economic conditions in the country, though gradually improving, are still far from their pre-war standards and it is in a measure to help better these conditions through the more general use of electrical industrial machinery that this display is given such a prominent place in the show plans.

Village Days

IT is hard for the present-day New Yorker to realize that not so many years ago the island of Manhattan was dotted with small villages and that the city of today is nothing more than these villages grown up and united.

On the West Side, Greenwich was the first of any size outside of the city. To this day that section of our town still retains many aspects of its earlier days. It began its career, however, not long after New York was fairly established and is our oldest village. During the dark days of yellow fever epidemics, which at regular intervals, played havoc with the population of New York, Greenwich became a haven of refuge. Its sandy soil and running streams seemed to be a protection against the scourge. In 1822 so great was the exodus from the neighboring city that Greenwich absorbed the better part of the population. A large number of downtown banks were forced to open branch offices in the village, and thus Bank Street was named. An old authority says that he saw corn growing on the present corner of Hammond (West Eleventh) and Fourth Street, on a Saturday morning, and on the follow-

Illustrations from Valentine's Manual

The Jefferson Market Watch Tower Afforded an Excellent View Not Only of Greenwich, But of the Villages to the North and East

The Railroad Station at Manhattanville, with Manhattan College in the Background

ing Monday Sykes and Niblo had a house erected capable of accommodating three hundred boarders. Even the Brooklyn ferryboats ran up here daily. The Custom House, Post Office, stores and offices sprang up everywhere and the village became overnight the seat of the immense business usually carried on in the city.

Next after Greenwich came Chelsea Village beginning at about 19th and extending to 24th Street. Much could be written about old Chelsea but everything pales into insignificance compared with the fame that came to the village through that famous Christmas poem written by Clement C Moore and now known to children the world over:

"Twas the night before Christmas
And all through the house
Not a creature was stirring, not even a mouse."

Between Ninth and Tenth Avenues still stands the famous row of houses known as London Terrace. They have large front lawns recalling somewhat Pomander Walk. Back of them on 24th Street is Scotch Row, where at one time lived many Scotch families.

Beyond Chelsea there came another long stretch of farm lands and then Bloomingdale, an important settlement. The highway starting at the Flatiron Building and running northwest was the well known Bloomingdale Road of our fathers. But Broadway was pursuing its course relentlessly. It had paused for a moment at Grace Church. In fact, it was generally conceded that Broadway would never go any farther, and it was regarded with peculiar satisfaction that so fine a thoroughfare should possess so classical and dignified a structure at its head.

Broadway did not see it that way continued relentless, however, and to avoid an obstruction it swerved to the west and resumed its northerly

journey, passing Union Square and continuing serenely uptown. For a while Bloomingdale refused to give up its long established claim as the main highway in that part of town but gradually the pressure became greater and greater till at last old Bloomingdale Road went to join St. George's Street and all others that had presumed to question the supremacy of Broadway.

For a number of years this old Dutch Village was known chiefly for the fact that the Insane Asylum was there. It was nevertheless a very delightful and charming village containing all the fascination of a present day Sleepy Hollow and was almost as inaccessible. Stages and sloops were the main methods of communication. Its undulating land made it very attractive. Of all the pretty villages in old New York, and most of them possessed this attribute in liberal measure, old Bloomingdale was the most charming.

Beyond Bloomingdale was another hamlet—Manhattan. At one time it was one of the thriving villages on the newly formed Hudson River Railroad and boasted a horse car line that connected the railroad station and steamboat dock with the village of Harlem. Harlem lay just beyond the ridge and Manhattanville was the nearest railroad station. Manhattan College occupied the large brick building just beyond the station.

Beyond Manhattanville was Carmansville, famous as the home of the great naturalist John J Audubon. Hundreds of societies named after this great man and devoted to the protection of birds invest the old village with an interest all its own.

The old Audubon House is still standing but in pitiful contrast to the days of its glory. It can be seen from the parapet of the Riverside embankment just where it takes a curve eastward at 155th Street. Near this home is also the beautiful group of buildings erected as a memorial to the memory of Collis P Huntington, by his son Archer M Huntington.

The City Replaces the Villages

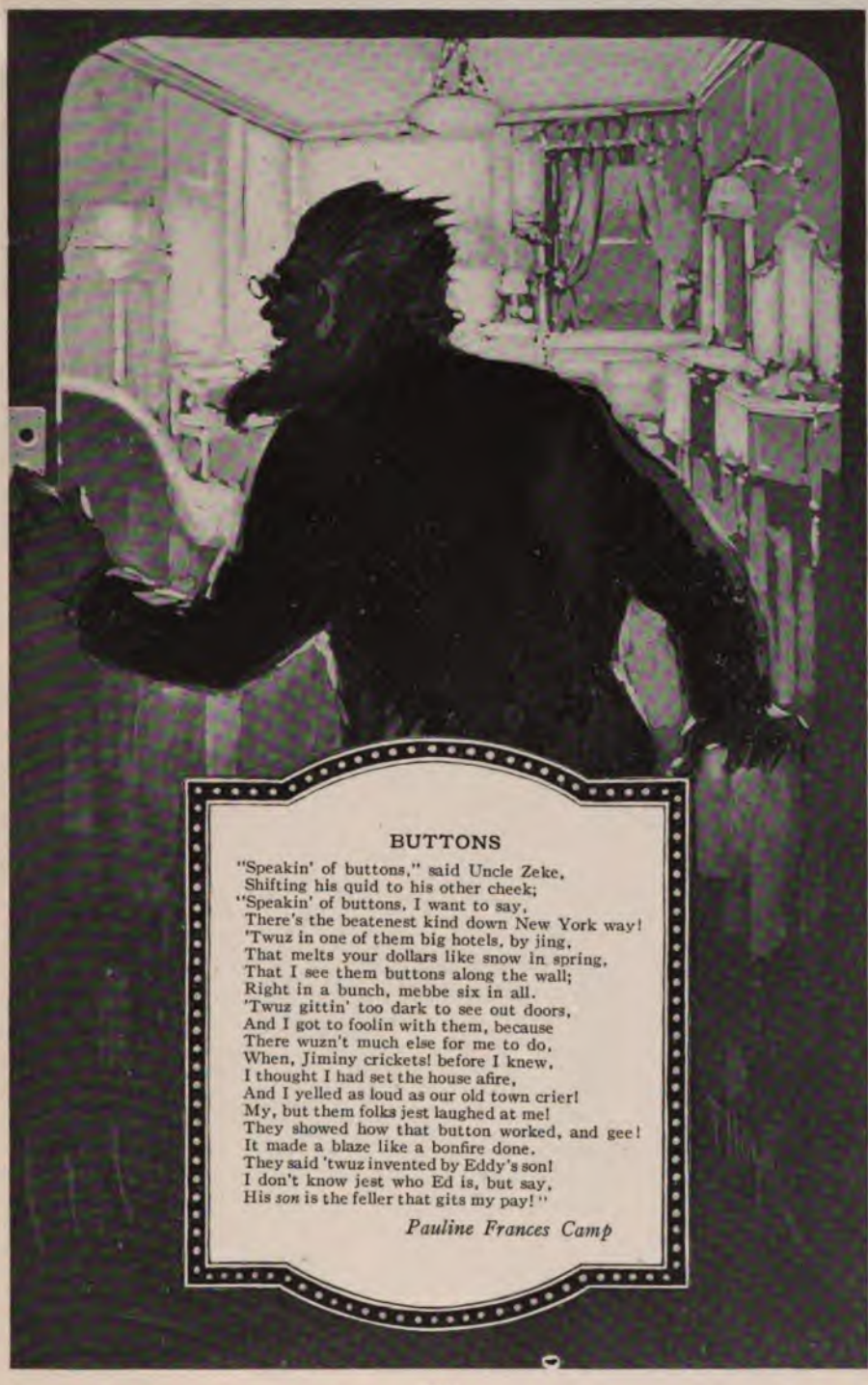
As the city at the lower end of the island grew, so the villages prospered, and it was only a matter of time before the extension of village limits reached such proportions that the outer boundaries actually joined, and before long it was only the historian who knew where one town ended and the next began.

One by one, various characteristics of the villages disappeared. The pump and the town well gave place to reservoirs of doubtful purity, which in turn disappeared in favor of a water supply carried all the way from the mountains. The horsecar and steam engine became antiquated and at length gave way to the modern electrically driven cars and engines, and the old oil burning street lamps which used to smoke and flicker in every passing breeze, have long since gone to their rest and given up their places to the great electric street lights of today.

An Axe to Grind

"My Son, I have an axe to grind,"
The smiling stranger said:
"Quite welcome, Sir, and you will find
A motor grindstone in the shed."

T M Bray



BUTTONS

"Speakin' of buttons," said Uncle Zeke,
Shifting his quid to his other cheek;
"Speakin' of buttons, I want to say,
There's the beatenest kind down New York way!
'Twuz in one of them big hotels, by jing,
That melts your dollars like snow in spring,
That I see them buttons along the wall;
Right in a bunch, mebbe six in all.
'Twuz gittin' too dark to see out doors,
And I got to foolin with them, because
There wuzn't much else for me to do,
When, Jiminy crickets! before I knew,
I thought I had set the house afire,
And I yelled as loud as our old town crier!
My, but them folks jest laughed at me!
They showed how that button worked, and gee!
It made a blaze like a bonfire done.
They said 'twuz invented by Eddy's son!
I don't know jest who Ed is, but say,
His *son* is the feller that gits my pay!"

Pauline Frances Camp

Photograph by The New York Edison Company

To aid the thousands of homes in this city, where time and energy should and can be saved, The Crystal Machine Company has recently opened attractive salesrooms at 22 West 39th Street, where demonstrations of electrically operated washing machines are given daily. During the summer months, clothes cleansed in an electric machine are a boon to the homekeeper whose strength is easily sapped in her effort to keep the household comfortable and running systematically with the least amount of nerve strain

Photograph by The New York Edison Company

Window display is an art requiring as much creative skill as the painting of a picture or the decoration of a room. In exhibiting its product, The Crystal Machine Company has borne in mind the fundamental principles of display, i.e., to attract attention, arouse interest, and create desire. Careful thought has been given to the texture of hangings and harmonious composition of the whole

Manufacturers and Agents (Continued from Page 196)

Motors

General Uses (Concluded)

Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Howell Electric Motors Co—149 Broadway
Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
Livingston J & Co—104 E 41st St
Mechanical Appliance Co—39 Cortlandt St
National Electric & Welding Co—145 W 18th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Electric Products Corp—149 Broadway
Special Universal Motor Co—2739 Third Ave
Sprague Electric Works—527 West 34th St
Star Electric Motor Co—111 West 23d St
Wagner Electric Mfg Co—30 Church St
Wald Electric Motor Co—417 Canal St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Belyea Co—145 W 18th St
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Bohn C C Electric Co—820 Sixth Ave
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const & Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—145 West 18th St
Cutter F B Co—50 Church St
Eisenberg General Con Co—149 Grand St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Manufacturers Equipment Exchange—Lafayette and Prince Sts
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Electrical Repair Co Inc—240-242 West 25th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Washington Pump & Machinery Corp—115 Broadway
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St
Walsh Electrical Supply Co (Household)—275 Madison Ave

Signs Electric

Bofinger Bros—146 East 42dSt
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L—560 Seventh Ave

Manufacturers and Agents (Continued)

Universal Elec Stage Lighting Co (Kliegl Bros) —240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 Church St
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1123 Broadway

Specialties

Betts & Betts Corp (Fuses-Refillable)—511 West 42d St
Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers) —1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes) —114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St
S O S Electric Sales Co (Time Switches)—2 Columbus Circle
Whitehead J T & Son (Lamp Shades)—1009 Sixth Ave

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krantz Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

A & A Electric Co—535 Seventh Ave
Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 E 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dreyfuss Co P M—150 Chambers St
Duntley Products Sales Co—9 E 35th St
Duparquet Huot & Moneuse—108 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Frost Samuel—41-43 W 14thSt
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Co—23 W 37th St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Simpson P—138 W 116th St
Sloane W & J—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—47 W 42d St
Tuec Company The—103 Park Ave
United Electric Company—103 Park Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St
Whitehead J T & Son—1009 Sixth Ave

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Lindstrom Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanitax Elec Co—143 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simpson P—138 W 116th St
Special Universal Motor Co—2739 Third Ave
Trainor S George—47 W 42d St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St
Whitehead J T & Son—1009 Sixth Ave

Washing Machines

A & A Electric Co—535 Seventh Ave
Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn
Bell Harry A—47 West 38th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Domestic Laundry Equipment—224 W 26th St
Dreyfuss Co P M—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp—119 W 42d St
Frost Samuel—41-43 W 14th St
Gould Appliance Co—7 West 42d St

Manufacturers and Agents (Concluded)

Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—40 E 41st St
Home Devices Corp—11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—23 W 37th St.
Laun-Dry-ette Sales Co—36 W 37th St
Lightolier Co—569 Broadway
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co —35 Vestry St
Pittsburgh Gage & Supply Co—119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simpson P—138 W 116th St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—145 W 18th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Coast Electrical Supply Co—399 Pearl St
Crannell Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Irish W F Co—130 W 32d St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell Nugent & Kranzer Inc—110 W 30th St
Duparquet Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Killoch David Co—57 Murray St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St
Whitehead J T & Son—1009 Sixth Ave

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Broome St 308—M Zuckman
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun & Co
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Blevle Elec Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 117—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Grand St 149—Eisenberg General Con Co
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co

Wiring and Installation Contractors (Continued)

Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Thomas St 68—J F Hughes Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Varick St 203—Riccio Electrical Contractors
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

Norfolk Street District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 141—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1168—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 9th St 320—Endig Electrical Works
East 13th St 2—B W Sandbach & Co
East 14th St 207—John Ryffel
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—Wm Fredericks
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 18th St 145—Belyea Company
West 20th St 241—Reliance Elec Inspection Co
West 23d St 10—William J Shore
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker Electric Co
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 41st St 112—E F Rusie
East 42nd St 239—Hudson Elec Eng Co
East 45th St 70—Edwards Elec Construction Co
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eleventh Ave 430—McLeod Ward & Co
Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 405—Nathan C Solomon
Lexington Ave 419—M Schweiger & Co
Lexington Ave 605—John Jay Bauer
Madison Ave 407—Manhattan Elec Cont Co
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 605—"B" Electric & Hardware Co
Third Ave 731—Metropolitan Electric Co
Third Ave 847—Rand Electric Shops
West 30th St 114—Tucker Elec Construction Co
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co Inc
West 33d St 221—E-J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 37th St 23—Kimball Elec Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 112—J F Delahant Elec Sales Corp
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 52d St 306—Strauss & Company Inc
West 53d St 350—Chas Weinz
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 79th St 185—D M Rousseau
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
East 95th St 156—Edward Zenker
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—David H Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle

Wiring and Installation Contractors (Concluded)

Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2490—J F Delahant Elec Sales Corp
Claremont Ave 742—Joseph F Vielberth
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
Columbus Ave 649—Ernest Craske
East 125th St 77—Peter Jansen
East 125th St 163—F J Rush
Park Ave 1630—Wimple Electric Co
Park Ave 1755—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 141st St 470—Dorler & Domis
East 152nd St 726—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Morris Park Ave 685—M Wm Smith
Prospect Ave 1382—Sidney Cannold
Third Ave 2586—Albert F Eggers
Third Ave 2739—Special Universal Motor Co
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Electrical Contracting Company Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 508—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 273—Endig Elect Works
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Jerome Ave 2375—Mills & Svenson
Park Ave 4206—Hugh J Casey
Nelson Ave 1643—M & M Electric Co
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Ann St 55—John Hammill
Barclay St 55—A Edgar Goetz Inc
Barclay St 109—Spilger Electric Co
Barrow St 25—Jos Torre
Beaver St 21—J Hillgardner & Son
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beekman St 74—Jordan Bros
Beekman St 96—Naumer Electric Co
Bleecker St 13—Schwartz & Blumengarten
Bleecker St 63—Harry Hyman
Bleecker St 122—A Epstein
Bleecker St 178—Rocco Secco
Broad St 39—Beaver Electric Co
Broad St 41—Industrial Supply Co
Broad St 68—Broad Equip Co of N Y
Broad St 122—Stewart Dickson & Co
Broadway 1—William Vautin
Broadway 105—Western Electric Co Inc
Broadway 253—Porter Elec Co
Broadway 371—Rabinowitz & Kluger
Broadway 402—Edison Electric Lamp Co
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 435—Radiant Electric Lmp Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broadway 583—Eclipse Light Co
Broadway 652—New Era Appliance Corp

Authorized Mazda Lamp Agents (Continued)

Broome St 308—Max Zuckman
Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 243—Van Ben Thuysen Robt Co Inc
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 336—Honowatt Elec Import Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 211—Patterson Gottfried & Hunter
Centre St 231—Worth Electric Co
Chambers St 101—Broadway Hardware Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Church St 30—Wm Braun & Co
Church St 30—E A Delaney
Church St 30—P A McGuire
Church & Vesey Sts—Metropolitan Hardware Co
Cleveland Pl 25—Globe Electric Co
Coenties Slip 13—Jos J Keegan & Co
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 38—Fred Kraft Inc
Cortlandt St 39—W S Broadhurst
Cortlandt St 70—Pabst Elec Co
Cortlandt St 84—Bleyle Electric Co
Cortlandt St 86—A E Gelling
Dey St 23—Cleveland & Ryan
Dey St 48—John J Leahy
Dey St 65—M K Bowman-Edson Co
Duane St 23—Empire Elec Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 52—Flitner Atwood Co
Front St 54—Ocean Ship Chandlery Co
Front St 62—William E Williams
Front St 117—Charles Davidson
Front St 162—W S Pendleton Jr & Co
Front St 194—E George & Co
Front St 203—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 105—Montgomery & Co
Fulton St 110—Marlen Hdwe Co
Fulton St 226—International Elec Co
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Gold St 46—Van Axen Elec Co
Grand St 59—Paul Silverstone
Grand St 176—North American Chandelier & Supply Co
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 211—Interborough Lighting FixtureCo
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt Watts & Tankard Co Inc
Greenwich Ave 17—Nathan Staulsky
Greenwich St 25—Wm Storms
Greenwich St 70—Whitehall Elec Co
Greenwich St 86—Wm Claman
Greenwich St 133—A J Hemphill Co
Greenwich St 255—G M Ross
Greenwich St 460—A F Beckman & Co
Hudson St 48—J J Bigelow Co
Hudson St 207—James D Mills
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 82—Joseph W Reynolds
John St 84—Alfred Whiteley Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 120—Chas W Osburg Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 120—Welborne & Co Inc
Liberty St 123—Smith-Meeker Eng Co
Liberty St 126—Thomas & Johnson
Liberty St 133—Chas W Leveridge Inc
Maiden Lane 90—Palo Co
Maiden Lane 91—Weber & Jones
Mercer St 305—Ensor & Co
Mott St 44—Quong King Long Co
Murray St 23—Stanley & Patterson
Murray St 43—Conlan Electric Co
Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 82—Rudolph Weidhofer
Nassau St 145—N Y Supply & Inspection Co
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 143—Ben Weiner
Park Row 163—Advanced Elec Lamp Co
Pearl St 35—Henry A Kissel & Co
Pearl St 116—Kelting Electric Co
Pearl St 187—Elite Elec Co
Pearl St 399—East Coast Elec Sup Co
Prince St 44—Louis Iorio
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Rector St 26—Rector Electric Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 82—Eastern Electric Works
South St 32—Wm H Swan & Sons
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
So William St 28—Central Supply Co
Spring St 50—Arnolde Migliacoio
Spring St 192—John Parisi
Stanton St 49—J N Grossman
Stanton St 173—Schacht Electrical Co
Sullivan St 29—Bayne Co
Thomas St 68—J F Hughes Co
Trinity Place 70—Robert Elkan
Trinity Place 70—Marine Elec Co
Varick St 143—H C Griffin & Co
Varick St 203—Riccio Electrical Contractors
Vesey St 45—Casey Naser Elec Co
Vesey St 59—L Gabler & Son
Vestry St 35—Northwestern Electric Equip Co
Vestry St 80—R J Masbach
Walker St 86—Conlan Elec Co
Warren St 8—Bozart Lighting Co
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 67—Northern Elec Co
Warren St 77—Parr Elec Co
Warren St 97—Wm E Glaeser
Warren St 113—Warner Service & Repair Corp
Warren & Church Sts—Perlman Auto & Cycle Supply Co
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
Water St 52—Lund & Miller
West Broadway 152—Wheeler & Lent

Authorized Mazda Lamp Agents (Continued)

West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 484—Chas R Ruegger
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West St 90—C C Galbraith & Son
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
William St 157—Milton C Beck
Wooster St 176—Jos Kerne

Norfolk Street District

Avenue A 196—F W Schneider
Avenue D 2—The New Interboro Electric Co
Ave D 2—Yorkville Elec Fixt Co
Bowery 206—Superior Elec Fixture Co
Bowery 118—United Incandescent Gas Light Co
Bowery 118½—United Inc Gas Light Co
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 135—Eureka Lighting Fixt Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Fix Co
Bowery 166½—B Ackerman Inc
Bowery 216—Economic Arc Light Co
Bowery 223—J Zucker
Bowery 250—Metro Lighting Fixt Supply Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 272—Louis Rice
Bowery 273—Beacon Sales Co
Bowery 280—United Lighting Fixture Co
Bowery 327—A Klorman
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—Pioneer Lighting Fixture Co
Broome St 327—N Y Gas Light Co
Chrystie St 86—Consolidated Elec Supply Co
Clinton St 91—A Z Electrical Supply Co
Delancey St 84—Frank Silverman
Delancey St 102—Rubin Bros
Division St 87—Soffen Brothers
Division St 133—Lincoln Cont Co
East Broadway 88—Minkowitz & Cohen
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 80—General Lamp Co
East Houston St 93—I Berkowitz
East Houston St 170—D Stein
East Houston St 306—M Lasky
East 2nd St 86—Samuel Konowitz
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 36—Max Leaf
East 4th St 69—Eastern Electric Works
East 4th St 75—Charles Lipschultz
East 4th St 128—Isadore Schajowicz
Essex St 62—Public Elec Supply House
Essex St 175—W Katz
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 182—Ben Goldberg
Henry St 121—James Drucker
Monroe St 11—Anglo Amer Elec Co
New Chambers St 4—Louis Purcaro
New Chambers St 22—Clover Electric Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 70—Goran Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Pike St 30—Freeman Bros
Rivington St 265—M Franzblau
Second Ave 73—J Brown

Irving Place District

Bible House 75—N H Bresel
Bible House 78—T C Miller
Broadway 1155—Empire Electric Co
Broadway 1168—Alliance Elec Co
Christopher St 41—W Buch
Christopher St 91—Atlas Electrical Supply Co
Cooper Square 10—Philip Adison Elec Supply Co
Cooper Sq 32—L Barth & Sons
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Maingani
East 8 St 31—N Y Elec Motor Exchange
East 9th St 57—George Murphy
East 10th St 30—Spero & Cohen
East 10th St 78—Prager & Davidson
East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 13th St 5—Edison Lamp Service Co Inc
East 13th St 34—A L Todd
East 14th St 7—William Landau
East 14th St 10—Acme Electric Co
East 14th St 10—Automatic Awning Control Device Corp
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 22d St 18—Consumers Elec Lamp & App Co
East 22d St 27—Charles Elec Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 28—A Marchard
East 23rd St 131—Chas Besler & Co
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—William Fredericks
East 28th St 112—Miller Elec Co
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 97—Nathan Eisenberg
Eighth Ave 153—The Marcus Store
Eighth Ave 169—Bazaar Franco American
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 378—Wm Purdy
Fifth Ave 75—H M Walter
Fifth Ave and 26th St—Park & Tilford
First Ave 226—Isidore Wachtel
First Ave 312—A Koppeman
Fourth Ave 108—I Gluck
Fourth Ave 121—Borough Elec Co
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 7—David Greenfield
Ninth Ave 277—Isaac Brand
Second Ave 156—Miller Auto Supply Co
Seventh Ave 182—Finkelstein Bros
Seventh Ave 189—E Christensen
Seventh Ave 219—Subway Hardware Co

Authorized Mazda Lamp Agents (Continued)

Seventh Ave 227—The Little Electric Co
Seventh Ave 243—Keppler Bros
Seventh Ave 267—Superior Elec Co
Seventh Ave 296—B Adler
Sixth Ave 147—McGeady Electric Co
Sixth Ave 182—Chas H Bingler
Sixth Ave 183—M A Karp
Sixth Ave 379—Sandback-Gilbert Elec Co
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Stuyvesant St 14—Julius Kupatt
Third Ave 184—Henry Green
Third Ave 246—Metropolitan Electric Lamp Co
Third Ave 276—S Greisman
Third Ave 317—Chelsea Elec Co
Third Ave 384—D B Pershall & Son
Union Sq 32—Leco Elec Lamp Co
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 107—Dale Ltg Fix Co
West 13th St 308—State Elec Supply Co
West 13th St 408—Bullock Mfg Co
West 14th St 41-3—Sam Frost
West 14th St 112—Raphael Morris & Co Inc
West 14th St 132—Acme Lighting Fixture Co
West 14th St 232—Wm H Crary
West 14th St 249—Alexander Stock
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 15th St 22—Simes Co
West 16th St 4—Central Elec Supply Co
West 16th St 111—E Korkes
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 44—Rambeau & Sheflin
West 17th St 46—W & T Machine Co
West 17th St 48—Beidner Elec Co
West 17th St 102—Perlman Elec Co
West 17th St 105—Manhattan Elec Lighting Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 148—Keystone Elec Lamp Co
West 17th St 227—Lighting Eng Service Co
West 19th St 25—Horowitz & Leff
West 19th St 40—Lewis Harbitter
West 19th St 203½—Raphael & Losty
West 19th St 263—Radice Elec Co
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 35—Boris Pedell
West 20th St 120—Reliable Sewing Machine & Electric Co
West 20th St 241—Reliance Electric Inspection Co
West 21st St 9—Ferber Electric Co
West 21st St 126—Morris Gika
West 23rd St 113—Uneeda Elec Co
West 23rd St 235—Eastman Kodak Co
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Goodman Jablon
West 25th St 105—Samuel Vogel
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc
West 28th St 264—Irving Corin

Forty-second Street District

Broadway 1178—Electro Magnet Co
Broadway 1215—Columbia Elec Co
Broadway 1215—B W Glick
Broadway 1288—Electro Magnet Co
Broadway 1358—Siems & Co
Broadway 1368—Arrow Electric Shop Inc
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Brackett & Colt
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1416—H R Lockwood Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
East 29th St 34—Albin Gustafson Co
East 29th St 41—S H Kline
East 30th St 2—Simpson Electric Co
East 32nd St 19—R E Leve
East 34th St 211—Paul Prodromides
East 35th 162—James Caso
East 38th St 202—Sussman & Sussman
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 41st St 104—J Livingston & Co
East 42nd St 18—Herbert & Huesgen Co
East 42nd St 146—Bofinger Bros
East 42nd St 236—H F Electric Co
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 44th St 203—Grand Central Eng Co
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 17—Black & Boyd Mfg Co
East 48th St 201—Tiedelmann & Bohrer
East 57th 206—Paul F Weinbeer
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 150—J L Goodrich
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
East 59th St 241—S A Ecker
Eighth Ave 368—Luft & Luft
Eighth Ave 376—White Elec Eng Co
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
First Ave 660—Thompson-Starrett Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Building—Concourse Electric Shop
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave—419 M Schweiger & Co
Lexington Ave 581—J F Boland
Lexington Ave 605—J J Bauer
Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs

Authorized Mazda Lamp Agents (Continued)

Lexington Ave 769—Colonial Gvt & Elec Cont Co
Lexington Ave 985—James H Rhind
Madison Ave 275—Walsh Electric Supply Co
Madison Ave 367—Tiffany Studios
Madison Ave 407—Melville H Bettman Corp
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 619—Frankle Alffias
Madison Ave 631—Kellog & Bertine
Ninth Ave 630—Nathan Marks
Ninth Ave 875—Wm D Munro
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Chas J Conklin
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Second Ave 1111—New Bank Elec Supply Co Inc
Seventh Ave 468—Bank Elec Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Seventh Ave 729—Howell's Cine Equipment Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Seventh Ave 830—P Lotwin
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 409—Lebowitz & Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 510—M Siegel
Sixth Ave 635—John J Finn
Sixth Ave 636—Fred B Zender
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & CoInc
Sixth Ave 907—Harris Schwartz
Sixth Ave 947—JohnW Flint
Sixth Ave 982—Edw Nicholson
Sixth Ave 1009—John T Whitehead
Sixth Ave 1039—Mt Morris Auto Sup Sta
Tenth Ave 425—Ace Electric Co
Tenth Ave 486—Geo E Valley & Bro
Third Ave 400—Irving Kenner Co
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 444—Fred Hardy
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 497—Manhattan Hdwe & Tool Corp
Third Ave 518—Davis Bros
Third Ave 602—E G Schwarz
Third Ave 605—"B" Electric & Hdwe Co
Third Ave 647—Julius Gabler
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co
Third Ave 766—Adolph Raffner
Third Ave 767—Premier Emergency Corp
Third Ave 849—Rand Electric Co
Third Ave 918—Sidney Frey
Third Ave 943—Buyers Electrical Co
Third Ave 959—Frise & Jantzer
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 29th St 103—Keystone Elec Co
West 30th St 22—Madison Elec Supply Co
West 30th St 23—Guarantee Sewing Mach Co
West 30th St 110—Crannell Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 128—Joseph Gershon
West 30th St 151—Alpha Electric Co Inc
West 31st St 23—Louis Freund
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 31st St 153—Crasno & Kobler
West 32nd St 110—C. G. Willoughby
West 32nd St 130—W F Irish Co
West 33rd St 2—Ideal Elec Cont Co
West 33rd St 25—Harry Alexander
West 33rd St 221—E J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—H Alexander
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 34th St 110—Covic Elec Co
West 34th St 208—Joseph F Roberts
West 35th St 147—N Y Elec Installation Co
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 248—Knapp Ritzner Co Inc
West 35th St 419—Gordon & Koppelson
West 36th St 126—Metropolitan Elec Sup Co
West 37th St 36—Gotham Elec Co
West 37th St 44—Fred B Zenker
West 37th St 58—Roesser Studios Inc
West 38th St 66—Herald Lamp Service
West 40th St 105—Publicity Clock Co
West 40th St 108—World Lighting Appliance Co
West 40th St 143—Smith Elec Co
West 41st St 103—Teale Supply Co
West 41st St 243—R Kast
West 41st St 252—Starr Elec Co
West 42nd St 7—Gould Appliance Co
West 42nd St 13—Chas T Henry
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J FDelahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 121—Empire Lighting Fixture Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buschman Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 316—Mitchell Borna
West 42nd St 318—Herald Sq Elec Co
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 330—Concord Elec Shop
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 442—Sharlow Bros Co
West 42nd St 529—Park & Tilford
West 43rd St 122—Collins & Wagner Mfg Co
West 43rd St 267—Eagle Elec Co
West 44th St 314—Display Stage Ltg Co
West 44th St 354—Starling Elec Supply Co
West 46th St 63—Thomas B Adams
West 46th St 142—Capitol Motion Picture Sup Co
West 46th St 150—Crown Motion Picture Sup
West 46th 308—Gabriel Hirsch
West 46th St 459—Continental Elec Contracting Co
West 48th St 304—Joseph Beck
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co
West 52nd St 134—James Martin
West 52nd St 136—Brand Elec Co

Authorized Mazda Lamp Agents (Continued)

West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 301—Rialto Electric Shop
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 413—Frank Pisch
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 54th St 413—E G Clarke
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 149—Jos Schwartz
East 79th St 185—D M Rousseau
East 84th St 158—Gabriel Erdos
East 86th St 147—White Donnelly Elec Co
East 86th St 341—L S Metzger
East 95th St 156—Edward Zenker
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1461—Fuld & Fuld
First Ave 1756—Chas H Bayer
Lexington Ave 1026—David H Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 806—Madison Elec Co
Madison Ave 922—Paul Sawallisch
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haberman Bros
Madison Ave 1122—S Shearn
Madison Ave 1182—DoWell Elec Co
Madison Ave 1190—Potts Olmstead & Habel
Madison Ave 1519—Jacobson & Feldherr
Madison Ave 1532—Stein-Horowitz Hdwe Co
Madison Ave 1579—Hyman N Farin
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Contr Co
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Park Ave 1086—S Littman
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1629—A Guberman
Second Ave 1828—Zoltan Hartmann Elec Co
Second Ave 1838—P Stein
Third Ave 1011—J M Kohlmeir
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Ias Gear
Third Ave 1195—Harry Goldman
Third Ave 1286—F & B Electrical Co
Third Ave 1298—J Rappaport
Third Ave 1311—Bloch Hardware Co
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1545—N W Altman Co.
Third Ave 1573—B Wankel & Son
Third Ave 1636—Benjamin Phillips
Third Ave 1912—H Rose
Third Ave 1971—Nathan Louis

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 206—Automotive Elec Serv Corp
Amsterdam Ave 326—I H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 767—Frank Hanken
Amsterdam Ave 788—Louis Mantel
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849— LHoffman
Amsterdam Ave 868—Sacks & Blum
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—M Connolly
Amsterdam Ave 943—P T Dunn
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Markle Hardware Co
Amsterdam Ave 989—Marcus & Klein
Amsterdam Ave 1084—Samuel Garnter
Amsterdam Ave 1253—I Odence
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1632—Edward T O'Neill
Amsterdam Ave 1710—Thos Gilmartin
Amsterdam Ave 1762—James M Adler
Amsterdam Ave 1814—Louis Flato
Amsterdam Ave 1955—Ginsberg Bros
Amsterdom Ave 1975—Mishkin & Ferber
Amsterdam Ave 2141—Julius Kramer
Amsterdam Ave 2153—D Popkin
Amsterdam Ave 2232—Samuel Greenberg
Amsterdam Ave 2266—John A Dunn
Amsterdam Ave 2328—Sidney Fichtman
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1987—King Tire Co
Broadway 2128—Modern Ltg Co
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2247—Schlesinger & Co
Broadway 2314—McCabe & Widmayer
Broadway 2323—Wasself Pharmacy
Broadway 2337—American Elec Cons Co
Broadway 2343—Howard S Beidleman
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 112th St—Park & Tilford
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg
Broadway 2621—John E Thomas

Authorized Mazda Lamp Agents (Continued)

Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3499—Citron Bros
Broadway 3633—Citron Bros
Broadway 3766—A D Ritterhof & Co
Broadway 3817—Citron Bros
Broadway 3850—Samuels & Rose
Broadway 3906—M Lewis Inc
Columbus Ave 26—Esser & Kutzman
Columbus Ave 26—Magneto Elec Generator Co
Columbus Ave 81—Andrew J Davis Jr
Columbus Ave 144—E May Inc
Columbus Ave 189—Budnick Bros
Columbus Ave 196—Columbus Elec Co
Columbus Ave and 72d St—Park & Tilford
Columbus Ave 220—T F Carr
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 517—Sam Millinger
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—Alexander C Paterson & Son
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 812—B S Peyser
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 900—Gossler Bros
Columbus Ave 925—Amsterdam Elec Supply Co
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Supply Store
East 112th St 173—Behl Electric Co
East 116th St 6—Harlem Elec Co
East 116th St 12—J Alpert
East 116th St 85—Prompt Elec Ser Co
East 116th St 204—Empire Gas & Elec Fix Co
East 118th St 309—S W Hurowitz
East 120th St 165—Stein Mfg Co
East 125th St 163—F J Rush
Eighth Ave 2073—Phil Epstein
Eighth Ave 2137—I Sussman
Eighth Ave 2187—L S Metzger
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2441—A E Jackson
Eighth Ave 2662—D Enzelson
Eighth Ave 2697—Morris Kahn
Eighth Ave 2704—Lazar Schein
Eighth Ave 2752—E Kramer
Fifth Ave 1410—S J Eisner
Fifth Ave 2036—Frederick Klein
First Ave 2335—Anthony Guida
Hancock Place 3—Progressive Electric Co
Lenox Ave 22—Morris Perla
Lenox Ave 151—L Hershowitz
Lenox Ave 153—Mazda Electric Co
Lenox Ave and 126th St—Park & Tilford
Lenox Ave 346—Herman Young
Lenox Ave 394—S. Lichtenstein
Lenox Ave 403—Lenox Elec Co
Lenox Ave 468—Frank & Meyers
Lenox Ave 523—J Soffen
Lenox Ave 603—Herman Pinkiert
Lenox Ave 624—P J Gold
Lexington Ave 1855—K & H Co
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1806—Madison Elec Co
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 52—Manhattan Elec Fixt Shop
Manhattan St 69—Weil Bros
Park Ave 1630—Wimple Elec Co
Park Ave 1755—C V Gedroice & Co
Park Ave 1889—Gristede Bros Inc
Park Ave 1980—S Mayer
Second Ave 2236—A Freeman
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 169—J & S Elec Co
Third Ave 2098—Iron Spec Co
Third Ave 2257—Alex Koudelman
Third Ave 2327—Nedelman Schoenfeld Co
Third Ave 2352—Chas Mann & Co
Third Ave 2739—Special Universal Motor Co
West End Ave 165—F W Astarita
West 66th St 161—Leo Strus
West 70th St 104—Samuel Moses
West 72nd St 176—Kaufman & Burkert
West 83rd St 121—C J Christesen
West 83d St 220—Gertler Elec Co
West 99th St 237—I Davis
West 116th St 138—P Simpson Inc
West 116th St 239—Albert Elec Co
West 116th St 244—Schnabel Bros
West 118th St 430—Morningside Elec Supply Co
West 125th St 41—Hygrade Elec Novelty Co
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—Briggs Hardware Co
West 125th St 215—M J Heller Elec Co
West 126th St 301—M F Petters
West 135th St 107—C M Moten
West 135th St 493—Dominger Engineering Co

Bronx (Melrose District)

Boston Road 1168—N Goldman
Boston Road 1304—Mayo Lighting Fixture Co
Boston Road 1721—S Langer
Brook Ave 172—S Dworkin
Brook Ave 250—Loewe & Friedman
Burnside Ave 4—F B Electric Co
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 142nd St 781—Wilson Maeulen Co
East 149th St 358—Weber Supply Co
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 432—Wm Wilkening
East 149th St 448—A Dessner
East 152d St 726—Joseph B Josephson
East 152nd St 739—Gustav Abramowitz
East 152nd St 835—J Lowe
East 153rd St 404—Joseph Mancusi
East 160th St 770—Jacob Garten
East 160th St 816—Pellar & Gates
East 161st St 615—J F Smith
East 162nd St 860—Unit Elec Co
East 163rd St 736—Savles Electric Co Inc
East 163rd St 950—Max Maged
East 163d St 965—Kaufman Brothers

Authorized Mazda Lamp Agents (Concluded)

East 163rd St 1029—Globe Elec Lamp Co
East 163rd St 1032—M Finklestein
East 167th St 460—M Schwarzler
East 169th St 535—B Weiss Electric Co
East 169th St 638—Max Berminer
East 169th St 936—Mathew Sussman
East 177th St 1753—C H Wallace
East 180th St 708—C J Segaitz
Freeman St 860—Sidney Cannold
Freeman St 879—D Hass & M Posman
Intervale Ave 882—Topal & Son
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 972—Adolph Greenblat
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mahler Electric Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1111—Steinberg Bros
So Boulevard 1300—A Haas
So Boulevard 1308—Louis I Waldman
So Boulevard 1327—A Dressner
So Boulevard 1348—Whitehead & Weiler
So Boulevard 1482—Wilson-Rotker & Co
St Ann's Ave 342—S Wishnevsky
Stebbins Ave 1142—Walshin Bros
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2614—Bronx Hdwe & Supply Co
Third Ave 2718—A L Biltchick
Third Ave 2726—American Elec Ltg Co
Third Ave 2739—Special Universal Motor Co
Third Ave 2744—S Spiero
Third Ave 2998—I Gurland
Third Ave 3000—Michael A Busch
Third Ave 3151—We Lektrify U Corp
Third Ave 3154—Joseph B Josephson
Third Ave 3202—A & L Supply Co
Third Ave 3295—W M Harris
Third Ave 3414—J Schapiro
Third Ave 3440—Frank Sladek
Third Ave 3808—Adolph Siegel
Union Ave 673—R J Atherly
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altman
Washington Ave 1738—Tremont Elec Co
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 760—M Goldstein
Westchester Ave 796—Kessler & Steinman
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Elec Shop Inc
Westchester Ave 853—Ableon Elec Co
Westchester Ave 976—H Davis
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Westchester Square 134—D S Robinson
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 508—J J Mathias

Bronx (Tremont District)

Audubon Ave 182—R Koffoff
Audubon Ave 335—Wm Ward
Boscobel Ave 1396—R E McCallister
Boston Road 1360—Joseph Leckart
Boston Road 2017—H Von Hadeln
Claremont Pkway 505—Claremont Elec Co
Clinton Ave 2117—Wm H Blank
East Fordham Road 106—Gray's Fordham Store
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co
East Fordham Road 338—H & M Bloom
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 111—L Karowsky & P Farbman
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 575—Nonpareil Gas & Elec Co
East Tremont Ave 755—Becker Bros
East Tremont Ave 800—Levin Brothers
Tremont Ave 855—Boris J Medove
East 180th St 350—Philip Klein
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 183rd St 68—Ace Electrical Co
East 183rd St 545—Fred J Gil
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East 233rd St 343—Joseph Reda
Jerome Ave 2026—Monroe Elec Co
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2375—Mills & Svenson
Jerome Ave 2376—W W Electrical Co
Jerome Ave 2423—J Wollak
Kelly St 1015—G & M Electric Co
Morris Park Ave 685—M W Smith
Morris Park Ave 706—G Kuebler & Son
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
Park Ave 4206—Hugh J Casey
So Boulevard 1881—Louis Flatau
So Boulevard 1941—Abraham Herman
Thieriot Ave 1269—Thieriot Radio & Elec Co
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4197—Adolf Birnbaum
Third Ave 4239—Northern Gas & Elec Fix Co
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
University Ave 2370—Ernest A Boetzel
Webster Ave 2555—Ben Murdrick
Webster Ave 2563—Johnson & Johnson
Webster Ave 2601—Eli Ancowitz
Webster Ave 2641—Hyman Usden
Webster Ave 2643—Rudd Bros
Webster Ave 2607—U S Pharmacy
Webster Ave 2787—Fordham Elec Supply Co
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 181st St 553—George Hunter
West 231st St 165—Louis Grossman
West Fordham Road 45—Edward W Dunn

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway Office—424 Broadway
Norfolk Street Office—20 Norfolk St
Irving Place Office—10 Irving Place
Forty-second Street Office—124 West 42d St
Eighty-sixth Street Office—151 East 86th St
One Hundred and Twenty-fifth Street Office—15 East 125th St
Bronx (Melrose Office)—362 East 149th St
Bronx (Tremont Office)—Tremont and Monterey Aves

Department Stores which Sell Electric Appliances

Adams-Flanigan Co—Westchester & Third Aves Bronx Basement
Barnett Bros—Columbus Ave & 74th St Basement
Bloomingdale Bros—59th St & Third Ave Basement
John Daniell Sons—759 Broadway Second Floor
*Gimbel Bros—6th Ave & 33d St Fifth Floor
H C F Koch & Co—132 W 125th St Basement
Lewis & Conger—Sixth Ave & 45th St First Floor
Liggett-Riker-Hegeman Drug Stores
*Lord & Taylor—5th Ave & 38th St Fifth Floor
*James McCreery—5 W 34th St Sixth Floor
*R H Macy & Co—Broadway & 35th St Basement
Rothenberg & Co—34 W 14th St Basement
*Stern Bros—41 W 42d St Third Floor
*John Wanamaker—Broadway & 10th St Seventh Floor

*These stores maintain special electrical departments where wide varieties of electric household appliances are displayed.

Manufacturers and Agents

Automobiles

Commercial Trucks

Commercial Truck Co of America—405 Lexington Ave
Couple Gear Company—11th Ave & 30th St
Lansden Company—229 West 42d St
Oneida Truck Co—505 Fifth Ave
Walker Vehicle Co—(General Vehicle Co) Grand Central Terminal Room 3709
Ward Motor Vehicle Co—Grand Central Terminal Room 5736

Industrial Trucks

Automatic Transportation Co—258 Broadway
Baker R & L—17 Central Park West
Buda Company—136 W 55th St
Cowan Truck Company—103 Park Avenue
Crescent Truck Company—30 Church St
Ellwell Parker Company—50 Church Street
Hoagland Thayer Company—300 Washington Street Newark
Hunt C W Inc—140 Nassau Street
Industrial Truck Company—103 Park Avenue
Karry-Lode Industrial Truck Co—Grand Central Terminal
Koppel Industrial Car & Equipment Co—30 Church St
Lakewood Engineering Co—139 Centre St
Lansing Company—492 Broome St
Mercury Manufacturing Co—25 Church St

Passenger Cars

Detroit Electric Car Co—20 Central Park West
Rauch & Lang Inc—17 Central Park West

Storage Battery Charging Apparatus

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Cutler-Hammer Mfg Co—50 Church St
Eck Dynamo & Motor Co—32 Warren St
Edison Thomas A Inc—141 Lakeside Ave Orange N J
Electric Products Co The—30 Church St
Ellington Electric Co—149 Broadway
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Lincoln Electric Co—149 Broadway
Northwestern Electric Co The—1457 B'way
Robbins & Myers Co—30 Church St
Wagner Electric Mfg Co—30 Church St
Ward Leonard Electric Co—Mt Vernon N Y also 1902 B'way
Wesche B A Elec Co—110 West 40th St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Witherbee Storage Battery Co—643 West 43rd St

Electric Garages

For Storing and Charging in New York City

Commercial Cars

Acker Merrall & Condit Co—532 West 46th St
Brunswick Garage The—474 West 130th St
Doelger Peter—407 East 55th St
Edison Storage Battery Co—247 West 35th St
Exide Battery Depots Inc
West Side Garage—529-41 West 23rd St
East Side Garage—141 East 25th St
North Side Garage—West End Ave & 64th St

Passenger Cars

Electric Garage The—Central Park West & 62nd St

Mechanical and Battery Parts

Anderson Electric Car Co—Central Park West at 62d St
Anderson A & J M Mfg Co—135 Broadway
Baker R & L New York Corporation The—Central Park West at 62d St
Edison Storage Battery Co—247 W 35th St
Electric Garage—Central Park West & 62d St
Electric Storage Battery Co The—100 B'way
Exide Battery Depots Inc—West End Ave and 64th St

Manufacturers and Agents (Continued)

Mechanical and Battery Parts (Concluded)

Gassaway F S Inc—212 E 54th St
General Lead Batteries Co—123 West 56th St
Gould Storage Battery Co The—30 E 42d St
Guarantee Electric Products Co—110 W 40th St
Phila Storage Battery Co—American Building—Broadway and 58th St
Storage Battery Supply Co—239 East 27th St
Walker Vehicle Co—531 W 46th St
Willard Storage Bat Co The—418 W 125th St
Witherbee Storage Battery Co—643 W 43d St

Buffers—Polishers

Barker John H—95 Liberty St
Bogue C J Electric Co—513 W 29th St
Fort Wayne Electric Works of the General Electric Company—120 Broadway
General Electric Co—120 Broadway
Green W Electric Co The—81 Nassau St
Holtzer-Cabot Electric Co—101 Park Ave
Munning A P & Co—50 Church St
Robbins & Myers Co The—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Clocks—Time Stamps and Recorders

Betts & Betts Corporation—511 W 42d St
Holtzer-Cabot Electric Co—101 Park Ave
Howard E Clock Co—307 Broadway
Walker Bros & Haviland—120 Broadway
Western Electric Co—151 Fifth Ave and 105 W 40th St

Coffee Mills

Boker H & Co Inc—101 Duane St
Canton Electric Coffee Mills Co—11 E 125th St
Deer A J Co—73 Front St
Hobart Mfg Co Inc The—24 East 21st St
Howe Scale Co of N Y The—341 Broadway
Jacobs Bros Co Inc—71 Warren St

Conveyors

Alvey Ferguson Co The—110 West 40th St
Alvey Manufacturing Co—105 West 40th St
Brown Portable Conveying Machinery Co—30 Church St
International Conveyor Co—50 East 42nd St
Jeffrey Mfg Co The—50 Dey St
Lamson Co The—15 West 44th St
Mathews Gravity Carrier Co—50 Church St
Robins Conveying Belt Co—13 Park Row
Rownson Drew & Clydesdale Inc—68 William St
Standard Conveyor Co The—227 Fulton St

Cranes, Hoists and Winches

Alfred Box & Co Inc—Woolworth Building
Alliance Machine Co—Alliance Ohio (No New York Office)
American Hoist & Derrick Co—50 Church St
Brosius Edgar A—Pittsburgh Pa (No New York Office)
Brown Hoisting Machinery Co—50 Church St
Browning & Co Victor R—480 Lexington Ave
Champion Engineering Co The—149 Broadway
Chesapeake Iron Works—Woolworth Bldg
Cleveland Crane & Engineering Co—50 Church St
Clyde Iron Works—141 Centre St
Hayward Co The—50 Church St
Heyl & Patterson Inc—90 West St
Industrial Works—50 Church St
Lidgerwood Mfg Co—96 Liberty St
Link Belt Co—299 Broadway
Maine Electric Co—26 Cortlandt St
Manning Maxwell & Moore Inc—119 W 40th St
McMyler Interstate Co The—50 Church St
Mead Morrison Mfg Co—149 Broadway
Michener Stowage Co—17 Battery Place
New Jersey Foundry & Machine Co—90 West St
Northern Engineering Works—120 Liberty St
Shepard Electric Crane & Hoist Co—30 Church St
Sprague Electric Works—527 West 34th St
Terry Mfg Co Edward F—Grand Central Terminal
Wellman-Seaver-Morgan Co The—50 Church St

Dishwashing Machines

A & A Electric Co—535 Seventh Ave
Bromley-Merseles Mfg Co—1328 Broadway
Comstock Household Service—21 East 40th St
Duparquet Huot & Moneuse—108 W 22nd St
Fox Electric Corporation—119 W 42d St
Gould Appliance Co—7 West 42nd St
Livingston, J & Co—104 E 41st St
Phillipson Emil—110 W 40th St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St
Whitehead J T & Son—1009 Sixth Ave

Drills and Grinders (Portable)

Arnold Elec Tool Co—114 Liberty St
Chicago Pneumatic Tool Co—52 Vanderbilt Ave
Cincinnati Electrical Tool Co—50 Church St
Electro-Magnetic Tool Co—426 Broome St
Hisey Wolf Machine Co—50 Church St
United States Electrical Tool Co—50 Church St
Van Dorn Electric Tool Co—30 Church St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Electric Stage Appliances

Display Stage Lighting Co—314 W 44th St
New York Stage Electric Equipment & Reflector Company—108 West 34th St
Universal Stage Lighting Co (Kliegl Bros)—240 W 50th St

Electro-Plating Apparatus and Supplies

Bogue C J Electric Co—513-15 W 29th
Green W Electric Co—81 Nassau St
Munning A P & Co—50 Church St

Electro-Therapeutic and Dental Apparatus

American Sterilizer Co—Erie Pa—47 W 34th St
Columbia X-Ray & Electric Corporation—131 E 23rd St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dreyfuss P M & Co—150 Chambers St
Edison Electric Appliance Co—147 Waverly Pl
Edmonds Walter S—134 Congress St Boston Mass
General Acoustic Co—Acousticon for the Deaf 220 W 42d St
Guarantee Electric Products Company—110 W 40th St
Hanovia Chemical & Mfg Co—30 Church St
Harper Oriphone Co (Instruments for the Deaf)—303 Fifth Avenue

Manufacturers and Agents (Continued)

Electro-Therapeutic and Dental Apparatus (Concluded)

Hospital Supply Co The—153 E 23rd St
Hughes J W Co The—110 E 23d St
Johns-Manville H W Co—41st & Madison Ave
Kny-Scheerer Corp The—404 West 27th St
MacAlaster Wiggin Co—131 E 23d St
Metropolitan Eng Co—1249 Pacific St B'klyn
Meyrowitz E B Inc—520 Fifth Ave
Morison Electric Supply Co—15 E 40th St
Neel-Armstrong Co—29 W 34th St
Pelton & Crane Co—220 W 42d St.
Pittsburgh Electric Specialties Company—396 Broadway
Prometheus Elec Co The—511 W 42d St
Ritter Dental Mfg Co—200 Fifth Ave
Sanitax Elec Co—143 E 23d St
Shelton Elec Co—16 E 42d St
Simplex Electric Heating Co—120 W 32d St
Sorensen C M Co Inc—177 E 87th St
Tiemann George Co—107 E 28th St 107 P'k Row
Victor Electric Corp—131 E 23d St
Vioray Mfg Co—915 Whitlock Ave Bronx
Waite & Bartlett Mfg Co—252-258 W 29th St
Wappler Elec Mfg Co Inc—173 E 87th St
Westinghouse Electric & Mfg Co—165 B'way
White S S Dental Mfg Co—5 Union Square
Williams Roger—120 W 32d St

Elevators—Dumbwaiters

American Elevator Co—117 Cedar St
Burwak Elevator Co—216 Fulton St
Dowdall Chas E Inc—154 W Broadway
Electrical Repair Co Inc—240-242 West 25th St
Elevator Supplies Co Inc—1515 Willow Ave Hoboken N J
General Elevator Co—29 Broadway
Gurney Elevator Company—300 Eighth Ave—(Gould & Vanderback)
Jordan Bros Inc—74 Beekman St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 W 99th St
National Elevator Co—300 Eighth Ave
New York Elevator Co—50 Grand St
Otis Elevator Co—11th Ave and 26th St
Reedy Elevator Co—Willow Ave Hoboken N J
Roberts Jas H Elevator Co—430 W Broadway
Revolvator Company—Jersey City N J
Sedgwick Machine Works—150 W 15th St
See A B Elec Elevator Co—220 Broadway
Warner Elev Mfg Co—113 Warren St
Warsaw Elevator Co—216 Fulton St
Watson Elevator Co—407 West 36th St
Wheeler McDowell Elev Co—97 Varick St

Fans, Blowers and Air Compressors

Adams Bagnall Elec Co—95 Liberty St
Allis-Chalmers Mfg Co—50 Church St
Alpha Electric Co—151 West 30th St
American Blower Co—141 Broadway
Beach-Russ Co—220 Broadway
Belmont R A & Co Inc—906 6th Ave
Boker H & Co Inc—101 Duane St
Century Electric Co—30 Church St
Curtis & Carhart Inc—150 Chambers St
Curtis Pneumatic Machinery Co—30 Church St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Eck Dynamo & Motor Co—32 Warren St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Garner Ventilating Co—72 Trinity Pl
General Electric Co—120 Broadway
Gerdes Theo R N—123 Liberty St
Guarantee Electric Products Co—110 W 40th St
Hunter Fan & Motor Co—36 W 37th St
Ilg Elec Vent Co—13 Park Row
Kinetic Engineering Co—41 Park Row
Koithan & Pryor—39 Cortlandt St
Laidlaw-Dunn-Gordon Co—115 Broadway
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
National Brake & Elec Co—165 Broadway
Pittsburgh Elec Specialties Co—396 B'way
Robbins & Myers Co The—30 Church St
Smucker Arthur C—156 Broadway
Sorensen C M Co Inc—177 East 87th St
Sprague Electric Works—527 W 34th St
Star Electric Motor Co—111 West 23rd St
Strauss L L—560 Seventh Ave
Sturtevant B F Co—52 Vanderbilt Ave
Typhoon Fan Co—281 Lexington Ave
Washington Pump & Machinery Corp - 115 Broadway
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway
Westinghouse Traction Brake Co—165 B'way
Wing L J Mfg Co—352 W 13th St

Fans Rented

Strauss & Co L L—560 Seventh Ave

Fire Alarm Systems (Interior)

Auto Call Co—30 Church St
Automatic Fire Alarm Co—416 Broadway
Edwards Co—Exterior St Bronx
Leveridge Chas W Inc—133 Liberty St
Metropolitan Elec Protective Co—130 W 26th St
Ostrander W R & Co—371 Broadway
U S E M Co—301 West 37th St
Western Electric Co—151 Fifth Ave and 105 W 40th St

Fixtures and Portables

Acme Gas & Elec Fix Co—132 W 14th St
Alpha Elec Co—151 W 30th St
Bayley & Sons Inc—101 Park Ave
Belmont R A & Co Inc—906 6th Ave
Benjamin Electric Mfg Co—243 W 17th St
Black & Boyd—17 E 47th St
Bohn C C Electric Co—820 Sixth Ave
Bullock Mfg Co—408 W 13th St
Caldwell Edward F Co—36 West 15th St
Cincinnati Specialty Mfg Co—39-41 Cortlandt St
Dale Lighting Fixture Co Inc—107 W 13th St
Duplex Lighting Works—6 W 48th St
Falkenbach Mfg Co The—159 E 54th St
Federal Sign System (Electric)—649 W 43rd St
Findlay Robt Mfg Co—224 Fifth Ave
Fox Electrical Corporation—119 W 42d St
Frink I P—24th St and 10th Ave
Frost Samuel—41-43 W 14th St
Gleason E P Mfg Co—37 Murray St
Goetz A Edgar Inc—55 Barclay St
Heather R C Co The—19 W 36th St
Knickerbocker Chandelier & Elec Supply Co—325 W 42d St
Lighting Studios Co—220 W 42d St
Lightolier Company—569 Broadway
Livingston J & Co Inc—104 East 41st St
McCormack George H & Co—1133 Broadway
McFaddin H G & Co—38 Warren St
McHugh Joseph P & Son—9 West 42d St
Mayer Leon & Co—108 W 40th St.

Manufacturers and Agents (Continued)

Fixtures and Portables (Concluded)

Metropolitan Elec Supply Co—126 W 36th St
Miller Edward & Co—68 Park Place
Mitchell Vance Co The—503 W 24th St
Morison Electric Supply Co—15 E 40th St
Morris Elmer P Iron Works—126 Liberty St
National X-Ray Reflector Co—31 W 46th St
Parker Chas Co The—25 Murray St
Penn A C—Singer Building
Phenix Lighting Fixture Co—144 Bowery
Pittsburgh Lamp Brass & Glass Co—35 W 23d St
Raphael-Morris & Co—112 West 14th St
Robin Lighting Fixture Co—47 Warren St
Roeser Studios Inc—58 W 37th St
Shapiro & Aronson—20 Warren St
Sibley-Pitman Elec Corp—190 Sixth Ave
Silvestro C—4149 Park Ave Bronx
Simes Co The—22 W 15th St
Sommer Lighting Fixture Co Inc—386 Second Ave
Sterling Bronze Co—16 East 40th St
"Vase-Kraft" Studio—333 Fourth Ave
Wahle, Phillips Co—101 Park Ave
Walter G E—157 East 44th St
Western Elec Company—151 Fifth Ave and 105 W 40th St

Street Fixtures

Adams Bagnall Elec Co—95 Liberty St
Central Foundry Co—90 West St
Fox John & Co—253 Broadway
General Electric Co—120 Broadway
Morris E P Iron Works Inc—126 Liberty St
Mott J L Iron Works—118 Fifth Ave
Westinghouse Electric & Mfg Co—165 B'way
Western Electric Co—151 Fifth Ave and 105 W 40th St

Globes—Reflectors

Adams Bagnall Elec Co—95 Liberty St
Benjamin Electric Mfg Co—243 W 17th St
Fox Elec Corp The—119 W 42d St
Frink I P—24th St & 10th Ave
Gillender & Sons Inc—19 Madison Ave
Gleason-Tiebout Glass Co—200 Fifth Ave
Gotham Electrical Co—36 West 37th St
Holophane Glass Co Inc—340 Madison Ave
Hubbell Harvey Inc—30 East 42d St
"Ivanhoe-Regent Works" of the General Elec Company—105 W 40th St
Jefferson Glass Co—220 W 42d St
Lighting Studios Co—220 W 42d St
Macbeth-Evans Glass Co—19 West 44th St
Morgan John & Sons—96 Fifth Ave
Northwood H Co—19 Madison Ave
Phoenix Glass Co—230 Fifth Ave
Pickhardt Harry—98 Park Place
Pittsburg Lamp Brass & Glass Co—35 W 23d St
Straight Filament Lamp Co—42 E 23d St
Weeks Nelson Inc—226 Pacific St Brooklyn NY
Western Electric Co—151 Fifth Ave and 105 W 40th St

Heating and Cooking

A & A Electric Co—535 Seventh Ave
American Elec Heater Co—Detroit, Michigan
Belmont R A & Co Inc—906 6th Ave
Birkel Walter J—72 E 89th St
Bohn C C Elec Co—820 6th Ave
Boker H & Co Inc—101 Duane St
Bramhall, Deane Co—261 West 36th St
Comstock Household Service—21 East 40th St
Cutler-Hammer Mfg Co The—144th St and Southern Boulevard
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dover Mfg Co—30 Church St
Dreyfuss Co P M—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Edison Elec Appliance Co—147 Waverly Pl
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Guarantee Electric Products Co—110 W 40th St
Johns-Manville H W Co The (Heating Pads)—41st St and Madison Ave
Landers Frary & Clark—200 Fifth Ave
Lightolier Company—569 Broadway
Lindstrom Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place, 110 West 42d St, 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Pelouze Mfg Co—32 Park Place
Pittsburgh Elec Specialties Co—396 Broadway
Prometheus Electric Co The—511 W 42d St
Reimers Mfg Co—517 W 45th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simplex Electric Heating Co—120 W 32d St
Special Universal Motor Co—2739 Third Ave
Trainor S George—12 East 42nd St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St
Williams Roger—120 West 32d St
Westinghouse Elec & Mfg Co—165 Broadway
Wood C D Electric Co—441 Broadway

Ironing Machines

American Ironing Machine Co—70 W 45th St
Comstock Household Service—21 East 40th St
Domestic Laundry Equipment—224 W 26th St
Dreyfuss Co P M—150 Chambers St
Fox Elec Corporation —119 W 42d St
Gould Appliance Co—7 West 42d Street
Hart Wallace B—46 E 41st St
Horton Mfg Co—46 E 41st St
Hurley Machine Co—147 W 42d St
Roma Mfg Co—46 E 41st St
Livingston J & Co—104 E 41st St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Co—151 Fifth Ave and 105 W 40th St

Horse Clippers

Gillette Clipping Machine Co—129 W 31st St

Lamps—Mercury Vapor

Cooper Hewitt Elec Co—Eighth and Grand Streets Hoboken N J
Western Elec Co—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Low Voltage Direct Current Bell Ringers

U S E M Co—301 West 37th St

Motors

General Uses

Allis-Chalmers Mfg Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Barker John H—95 Liberty St
Bell Electric Motor Co—30 Church St
Bogue C J Electric Co—513 W 29th St
Boker H & Co Inc—101 Duane St
Burke Elec Co—30 Church St
Century Electric Co—30 Church St
Colonial Fan & Motor Co—150 Chambers St
Crocker-Wheeler Co—30 Church St
Diehl Mfg Co—149 Broadway
Dreyfuss P M & Co—150 Chambers St
Eck Dynamo & Motor Co—32 Warren St

Lists Continued on Page 245

August 1920

Park Row in 1840

VOLUME 12

CONTENTS

NUMBER 8

The Electrical Directory

	Page
Department Stores	225
Manufacturers and Agents	225
Wiring and Installation Contractors	247
Authorized Mazda Lamp Agents	249
Edison District Offices with Map	Inside Back Cover

The Edison Monthly

	Page
Editorial	230
The Survival of the Simplest	231
A Twentieth Century Mastodon	235
Economy in Pattern Laying	236
The Little Crooked Man (Verse)	237
The Brownie in the Laundry	238
Halving the Delivery Cost	240
Achievement (Verse)	242
The New York Public Library (Photograph)	243

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F BRADY, President
WALTER NEUMULLER, Secretary
FREDERICK SMITH, Treasurer

The need for increased space in buildings of all kinds, coupled with the uncertainty and expense in procuring material for new construction, is bringing about unusual conditions in building circles in New York.

Structures which under ordinary conditions would be about due to be torn down and replaced by larger buildings, instead are being altered and in many cases being very materially enlarged. Some of these buildings are adding several stories to their height while others are being enlarged through the acquisition of adjoining property.

Although there are almost as many different plans for renovation as there are building operations, there is one respect in which these activities are practically the same. Reference is made to that domain of building management which pertains to lighting, heating and elevator service.

Invariably it happens that in the plan for remodelling provision is made for the installation of Central Station Service for all electrical needs and the discarding of the private electrical generating plant. With this change should be mentioned the change in elevator types. As a rule buildings erected a decade or two ago were equipped with hydraulic elevators. This meant a complicated engine-room equipment. In the new plan all of this is done away with and the electric type of elevator is installed.

Thus the engineering equipment of a building is reduced from a complication of high pressure boilers, electric generators, steam pumps, and cumbersome elevator machinery, to a low pressure heating plant and a simple, economical, and dependable installation of electric motors.

The economy of one type of truck over another may very readily be measured in dollars and cents. Therefore it is not surprising when an electric truck user reports a substantial saving in delivery costs as compared with the days when he used horses. Records kept by the Theodore Tiedemann Corporation show that their electric trucks have reduced costs about one-half.

In the days when the firm used horses a complaint sheet occupied a very conspicuous place in the delivery department. The entries for any one day made a formidable count and, in the light of present experience, constituted a serious indictment against horses. Since the advent of the first electric in 1916 this record has rapidly lost its importance and now, instead of daily entries on the sheet, one is more apt to find the dust of disuse.

The Tiedemann fleet now numbers six vehicles and although this growth may be rapid it is amply justified, for the same features of economy and dependability which characterised the operation of the first electric have been experienced in the operation of the entire fleet.

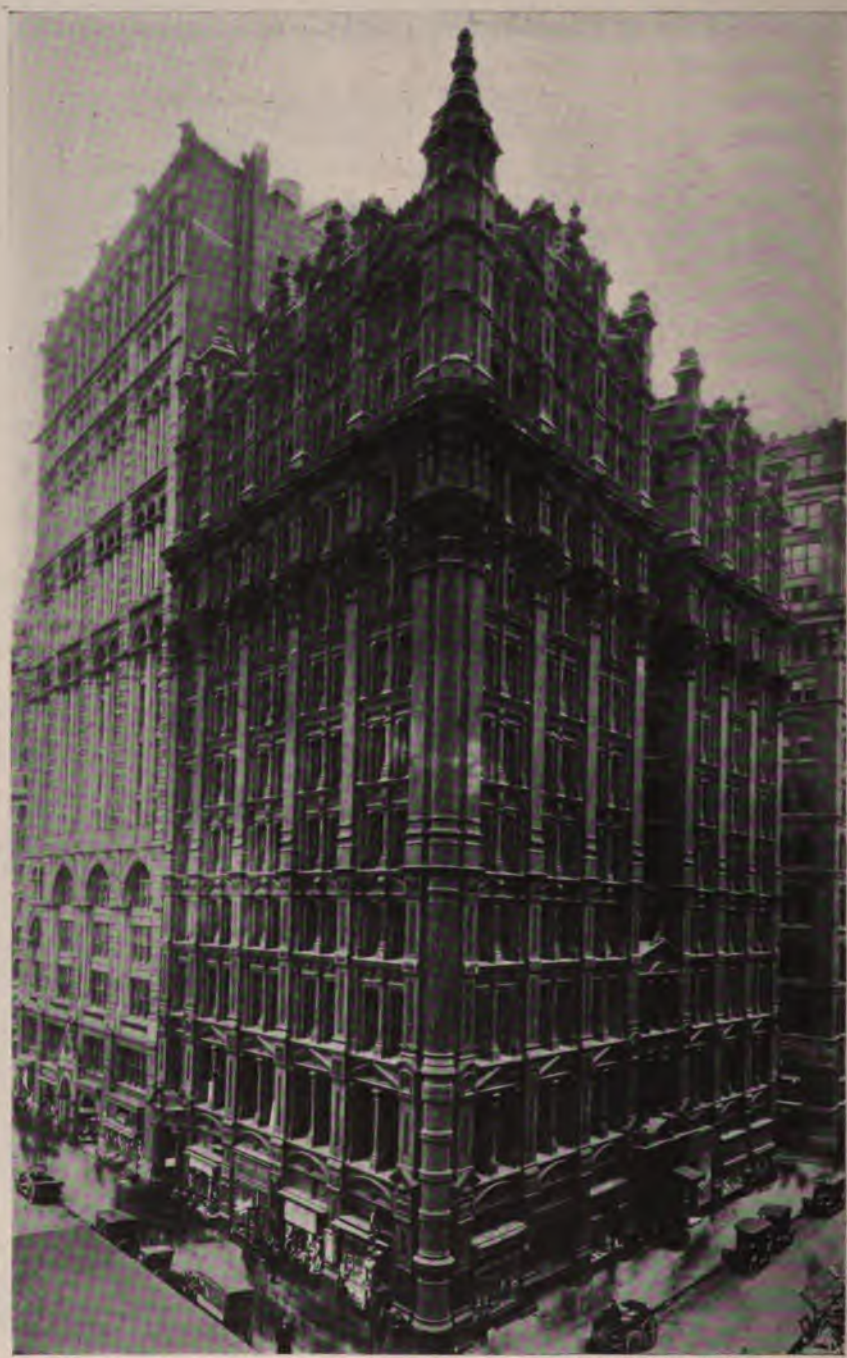
The Survival of the Simplest

FROM the very earliest days, Americans as a people have been accused of extravagance, not only in the form of lavish expenditure and display, but also more seriously, of waste of natural resources of all kinds,—the "wasty ways" of which Fenimore Cooper's odd Natty Bumpo complained more than a hundred years ago. An urban manifestation of this evil, and one which has been particularly characteristic of New York, has been the artificially rapid depreciation of buildings. Many a splendid structure, erected at no little expense, and equipped with all the facilities that architectural ingenuity could suggest, enjoyed its prime but a few years, comparatively speaking, and then descended gradually but irrevocably into the second class; a few years longer, and it would be literally off the map, razed to make way for some newer palace of commerce. Thus, the first skyscraper, erected in 1888 at 50 Broadway, with steel construction and passenger elevators serving its eight stories, the wonder of the town, by 1915 had been torn down to make room for a more modern structure.

With the suspension of construction following the World War, New York has learned, for the time being at least, to utilize her older buildings, for the acute building shortage with which the city is still struggling has

Photograph by the New York Edison Company

At the Hotel Endicott on Columbus Avenue, the Change from Hydraulic Elevators to Electric was Accompanied by the Installation of Motors to Operate Pumps and Refrigerating Equipment and the Abandonment of the Private Generating Plant



Photograph by The New York Edison Company

At the Potter Building, 38 Park Row, the Private Generating Plant Has Been Abandoned, the Four Hydraulic Elevators Changed to Electric, and Motors Installed for the Building Pumps

given a sudden renewal of value to many a structure that otherwise would have been allowed to lapse needlessly into senile debility. Now, skillful remodeling brings once more to the front rank buildings that a few years ago would have been wastefully marked for destruction.

If this has been true of buildings from an outsider's point of view, equally important transformations have been going on inside, especially in that little known domain of building management and operation where lighting, heating, and elevator service originate. Ten or twenty years ago, when the majority of downtown skyscrapers was erected, the keynote of their plan was individualism, a characteristically American tendency. The idea was to have each building, in as much as possible, a self-contained unit, with its own steam plant for heating, its generators for lighting and more especially, its boilers and pumps for the hydraulic elevators, which at that time were at the height of their popularity, although even then they were finding a keen competitor in the newer electric car.

Photograph by The New York Edison Company

Three Electric Elevators Now Serve the Tenants of the Tall Building at 33 Union Square

Under pressure of the various strains produced by the World War the inherent weaknesses of such a building ideal were fully brought to light. Thus, when coal shortage with resultant high prices began to make itself felt, the owners and managers of these properties realized, probably for the first time, the extravagance of their mechanical layout. Then, as shipyards and munition plants drew off skilled workmen from the city, the folly of conducting an office building with a factory in the basement became still more apparent. Many a building manager, who had previously boasted of his independence, began to see the attractiveness of a compact and uncomplaining Edison switchboard with its limitless resources, in con-

trast to a cellar full of complicated machinery.

The crux of the situation was usually the hydraulic elevator, for, although the engine and generators could readily be dispensed with by purchasing street electricity, as long as this type of lift was retained, it was necessary also to keep the high-pressure steam equipment with its attendant complexity and expense. Then began the movement, which is still continuing, for an entire change in the operating plans of many of the large downtown skyscrapers. Hydraulic elevators were changed to electric; private generating apparatus was abandoned, low-pressure steam heating equipment alone being retained, with central station electric supply furnishing all light and power.

The Passing of the Hydraulic

This passing of the hydraulic elevator does not mean that it was, in itself, a poor machine. On the contrary, when many of them were installed, say ten or twenty years ago, they were considered, by responsible experts, the best available apparatus for a tall building. Thus they form another interesting example of the fact that the mechanical equivalent of the survival of the fittest is the survival of the simplest.

Just as the gearless electric traction elevator, itself an improvement over the drum electric machine, has supplanted the hydraulic plunger, so the plunger in its turn threatened to supersede the vertically and horizontally geared hydraulics. And these, before that time, had eliminated the direct steam elevators, such as those used in the former Equitable building, and the water bucket balance type that did lift duty in the old Western Union building, or yet again, the screw machine that once made slow and stately progress in the old Fifth Avenue Hotel,—elevators and building now both a thing of the past. And back of those were still dozens of other hoisting contrivances, from the French "flying chair" back through the centuries to Nero, Caesar and Archimedes until the historian of elevators finds himself in ancient Egypt itself.

The building owner, however, who decides to scrap his hydraulic equipment and adopt electric elevators does not do so merely to justify any philosophical theory, such as the survival of the simplest, but to gain for himself very decided material advantages—economy, space, reliability, control, and a minimizing of repair charges. In fact, so clearly have both the mechanical and economical advantages of central station service and electric elevators been demonstrated that, in discussing a contemplated change, the building owner seldom has any doubts of its desirability. The only question is usually financial,—whether the management wishes to incur the expense of new equipment at the particular time. At present, the cost of changing elevators, like that of any other major building operation, is high, and although the savings effected by the elimination of high-pressure steam are admittedly an ample return on the capital involved, some owners are not in a position to make the outlay. Within the past year, despite the large initial investment, scores of hydraulic elevators have been changed by farsighted building owners to electrics and Edison service.

A Twentieth Century Mastodon

STRANGELY resembling some great antediluvian beast which had suddenly become endowed with life and had strayed from the dignified confines of the Museum of Natural History, there stands at the foot of East 125th Street a great mastodon of the Twentieth Century. With electricity its breath of life, this steel monster for the past five years has worked at the pier of the Pennsylvania Railroad so efficiently and economically that it is proving to be a big factor in solving the intricate and difficult problem of handling freight at water front terminals.

It is becoming increasingly evident, with the various lines of industry and commerce speeding up to regain their pre-war footing, that more efficient methods must be adopted for the rapid handling of the vast quantity of freight and merchandise constantly moving through the country by rail and by water, than was thought necessary some few years ago. At about that time, the Pennsylvania Railroad began to replace all hand-operated machinery with that driven by electricity.

The giant crane was installed as a part of this program of preparation.

Photograph by courtesy of the Brown Hoisting Machinery Company

The Ten-Ton Electric Crane at the Pennsylvania Railroad Pier at 125th Street and the East River. This Crane Has Given Practically Uninterrupted Service for Five Years

It is used both for loading and unloading freight, and is set up in such a manner that every part of the pier or car float may be reached. The cabs which control the hoisting apparatus may be run out beyond the edge of the pier and thus reach the cars on railroad floats. The operators in each of the two cabs control a lifting capacity of five tons. For lifting ten-ton loads the cabs are run together, a balancer connecting the hooks.

Before the general adoption of electric hoists at freight terminals, the work of loading and unloading was slow and expensive. If the freight from a barge of box-cars had to be transferred to waiting trucks, the operation was performed with the help, such as it was, of a number of old-fashioned derricks and hand trucks. As performed by the electric crane the work is simple, fast and more economical. A car-float is made fast to the pier. The crane is manouvered until the part which projects over the water is just above the car to be unloaded. The hooks are then lowered and a five-ton load is attached. When it has been raised clear of the car the cab with the load swinging beneath it runs back to a point above the waiting truck. The load is lowered and the truck starts off. The new operation takes about a quarter of the time consumed by the old method.

Electrically operated machinery is rapidly replacing the old slow methods of freight handling at railway terminals and steamship piers. It will not be long now before the hand derrick and truck will be as antiquated and out of date as our old horse cars.

Economy in Pattern Laying

Men and women in uniform were a common sight during the days when everyone was eager to render service to the great cause. Overseas the Red Cross nurse in blue or Salvation Army lass in khaki was easily identified among the millions in uniform. At home one of the striking features of the different drives was the prominence of the uniform worn by children war workers. Boy Scouts and Girl Scouts wore the distinctive khaki and the women of

Photograph by The New York Edison Company

Tracing and Perforating a Pattern With the Lay-Marking Machine

the Motor Corps rivalled their soldier brothers. And the columns of marching doughboys, marines, and gobs in khaki and blue sent a thrill through the thousands who bade them goodbye or rejoiced in their homecoming.

All the resources of the clothing industry were used in keeping pace with the great demand for uniforms. Every method making for manufacturing efficiency, from the entrance of the cloth into the factory to the fin-

ished garment, had to be utilized and many time wasters had to be overcome. One of the old-time methods which was found to be a prolific waster of time concerned the arrangement of patterns upon the field of cloth. It is a matter calling for no little skill to place a pattern so that there shall be a minimum amount of cloth wasted, and it means a constant adjustment of the different shapes until just the right arrangement is accomplished. Obviously, once this lay is worked out, it would be desirable to keep it for future use, but until war's necessity set inventors to work and the lay-marking outfit was devised there was no method of making a permanent record of the pattern lay-out. The electric lay-marking outfit was developed in time to be a big factor in speeding up the output of uniforms.

The lay-marking machine produces a permanent pattern which takes the place of the hand-marking method. Under the old plan the various shapes of the pattern are placed on the cloth and each piece is chalked off. Every time the pattern is used in this way, it must be replaced on the cloth as nearly as possible in the same position as the first lay. This necessarily requires skilled markers, consumes time, and incurs a waste of material.

To the manufacturer of garments, from the one producing staples to the most exclusive maker of specialty goods requiring duplicating lays of linings and trimmings, the new machine is especially valuable. The marker lays the patterns on chemically prepared paper instead of on cloth. After the proper arrangement has been worked out the electric machine is applied, tracing the lines of the pattern and perforating the paper. This perforated chart becomes a permanent pattern and takes the place of the loose patterns. Marking the material is now a simple process. The chart is placed upon the cloth and a powder is spread over the top, thus reproducing the line of perforations.

This manner of marking takes but a few seconds for a small lay and not more than three minutes for a lay of thirty yards. It insures an exact consumption of material so that no more can be used than has been figured upon, and is a guard against mistakes.

The machine is made of heavily plated bronze, has cutters of special heat and temper, a seven speed regulator, and a lamp bracket illuminating directly on the line of perforation. It curves automatically, and makes perforations at the rate of 300 to 3,000 a minute.

The lay-marker aided in the tremendous output of clothing during the war and is now one of the important electrical devices in the peacetime production of clothing. Again the unseen force that lights cities, moves trains, carries loads, and operates important industries has come to the fore in this device which, though small, is producing invaluable results.

The Little Crooked Man

A little crooked man
Went a crooked mile one day
'Cause the sun it wasn't shining
And he didn't know the way:
Now the street lights are all burning
When it's dark or very late,
And he hasn't any trouble
For the crooked mile is straight.

T M Bray

The Brownie in the Laundry

MONDAY morning in the house equipped with "brownie service" presents quite a different picture from Monday morning of the days when the children sang:

"This is the way we wash our clothes—"

all the while moving their little hands up and down an imaginary scrubbing board in imitation of their elders, and concluding with:

" 'Round and 'round the mulberry bush,

So early Monday morning."

In the first place the mistress of the home is not rudely awakened by the raucous stuttering of the alarm clock as she was in the old scrub-tub days. Dawn passes, unheeded by her, but at 7:30 she is ready to attend cheerfully to the duties of the coming day. She is confident that her little electric brownie, the descendant of the old-fashioned brownie of hearth fire fame, will be always at her service whether she is in the kitchen, pantry, sewing-room, parlor or laundry.

By starting the electric washing machine before breakfast is prepared, she finds, by the time the meal has been eaten and the dishes placed in the electric dish washer, that the clothes are ready to be rinsed and blued, having been miraculously washed without the expenditure of any human effort. What a contrast to the old-fashioned time-and-energy-consuming method of preparing breakfast and washing dishes before being able to begin the strenuous, hand-roughening, muscle-laming, back-breaking exercise over the weekly washtub!

The Mangle Does All Flat Pieces

In the meanwhile the little man in question must have balanced himself aft in the electric washing machine and energetically sozzled the garments up and down in the soapy water until they became clean and spotless. Listening at the door of the room where the machine was at work, one could have heard a rhythmical swish-splash, swish-splash of the suds as they were being hurled over the clothes. With almost magic speed and efficiency, practical and satisfying results were obtained.

The journey from the suds to the basket is a simple and short one. An unseen force, again perhaps the little domestic friend, turns the wringer and pulls each garment out from between the rollers. Into the rinsing and bluing water and out they go, once more via the wringer and into the basket.

Due to "brownie service" hardly a finger has to be raised during the whole process. The room still maintains its previously neat appearance. No soapy water has been splashed about on the floor. No washboard has drizzled a wake of suds from the

The Electric Iron Saves Steps

tub to the sink. The house mistress herself is not warm and untidy but cool and spotless.

From the upper bar of the rack in the electric clothes dryer the brown manikin can view with satisfaction the number of pieces, large and small, that he has washed. Here they dry in a remarkably short time and are ready to be ironed by the electric iron or mangle, the two devices that complete the modern laundry.

Tramping back and forth from hot stove to ironing board has always been one of the unpleasant conditions of old-fashioned ironing. But the electric iron has done away with this, and, with its smooth surface which needs no waxing, and its steady supply of heat, makes ironing a simple task. Perhaps it is the brownie again who guides this piece of apparatus smoothly across lengths of petticoats, and pushes it over bumpy tucks and into tiny ruffles, leaving them beautifully crisp and fresh. But the fact remains that ironing can be done with ease and comfort.

The mangle does the large and flat pieces, bed and table linen, towels and handkerchiefs. We can imagine the little brown imp turning the roller with his feet like a circus clown, so that each thing that is being ironed will come out smooth and wrinkleless.

Although the laundry is far more comfortable and much cooler than it used to be, in the summer months it is even more pleasant if an electric fan is installed. With the elimination of the stove, where the garments were boiled while the laundress was perhaps struggling with a clothes wringer or bending over a steaming tub, and which gave heat to heavy, cumbersome irons as well as to the room in general, and with the introduction of electrical labor-savers, the problem of doing the weekly washing does not disturb this modern woman.

Brownie and the house mistress have accomplished a surprisingly large amount of work by the time the electric clock in a neighboring church tower gives a warning of the approach of noon for the midday meal that has been cooking in the electrical cooker. And they are not fatigued from the work they have done, but still feel energetic and ready for some summer sewing to be done on the electric sewing machine that afternoon.

This Labor-Saver Does All the Washing

Halving the Delivery Cost

WOULD m'lady play golf? Very good. A smart tweed skirt becomes a necessity. Does madam honor the reception by her presence? Yes? Then the sheerest and most glowing of silks must clothe her. Is the mistress at home in the country? Of course, it is summer. Then surely a cotton frock is appropriate. Silks from the Orient, woolens from England and the Scottish moors, and cottons from the South are all to be found at the establishment of Theodore Tiedemann & Sons, at 351 Fourth Avenue, where service and efficiency are paramount factors in the development of a great commercial enterprise.

It was to increase efficiency that this firm in 1916, purchased the first of what is now an entire fleet of electric trucks. At that period the haulage from warehouse and pier, and the subsequent delivery to customers, was being done by horse-drawn vehicles. Today this work is being carried out more rapidly, more economically, and more reliably by electrics. The change came on the heels of a careful investigation of all methods of transportation, and an analysis of the performance shown by the first truck. After the introduction of the electrics, results were so satisfactory that from time to time others have been added until now there are six in operation.

Photograph by The New York Edison Company

Electric Trucks Have Cut Delivery Costs One-Half for the Theodore Tiedemann Corporation

Photograph by The New York Edison Company

A Complaint Sheet, Started in the Days of Horse-Drawn Trucks, Has Almost Ceased to Function Since Electrics Were Installed

Cloth is purchased by Theodore Tiedemann & Sons, through special agents in the foreign markets, and arrives at the dock in New York City, packed in heavy wooden cases which must be removed either to a warehouse or to the Fourth Avenue salesrooms of the company. This means that trucks often are compelled to wait their turn in line at the river front before loading. It is here that one of the greatest advantages of an electric truck is clearly shown, for while standing still, unlike other trucks, it consumes no energy and so costs nothing except the drivers' wages. For this shipping work the firm makes use of a 3½ ton truck with platform body so constructed that it allows maximum load capacity. Loads varying from two to four tons are regularly placed on this vehicle and up to the present, after three years of continuous service, no trouble has been experienced and entire satisfaction has been obtained.

A one-ton and a two-ton vehicle are also used by the company, the former being employed chiefly in the delivery of casket linings and burial garments which are especially manufactured by Theodore Tiedemann & Sons. The remaining three trucks of the six now in operation are of the two-ton size, but instead of being used at the Fourth Avenue location are engaged in another of the Theodore Tiedemann enterprises.

Woolen cloth, which is so essential to manufacturers of wearing apparel, must be examined, sponged and finished. These processes are carried out in the plant of the Theodore Tiedemann Corporation, at 40 West 25th Street. Here the three two-ton trucks play an important part, for the

goods must be called for, brought to the sponging room, and after being treated must be returned to the owners. Bolts of woolen cloths are shrunk, carried through an electric drier, folded by machinery and finally piled on skids. Cowan transveyors are then placed beneath the skids, and the bolts are rolled out and loaded on the electric trucks which deliver them at their destination. During the war this branch of the company operated on government contracts only, and again the electrics came into service in rushing the army's clothing to the Quartermaster's Storage Depot. Mr T J Lewis, Manager of the 25th Street office, says that the work costs 50% less per package with electric trucks than it did with horse drawn vehicles.

"We do as much hauling with three electrics as we did with six or seven horses," was his statement.

A complaint sheet kept in the company's offices for the purpose of recording delivery complaints was a fearsome document in the days when horses were used, but since the introduction of electric trucks in the business there have been almost no entries on this sheet, and both the corporation and its customers are satisfied. Having been in business for fifty years, and having tested almost every means of urban transportation, both Theodore Tiedemann & Sons and the Theodore Tiedemann Corporation declared themselves as being eminently satisfied with electric trucks and believe that there is no better means of solving the city haulage problem.

Achievement

From a midnight cave to a cozy flat
With its myriad modern lights a-glare,
Is progress made, but for all of that,
We might have lived like the blinded bat,
If some rare soul had not been brave
And launched his thought beyond the cave.

From the gleam of the first electric light
To the sunny glow of the tungsten lamp,
Is a forward step, but it took the might
Of a brain that toiled through the weary night
In a noble task that the world might be
The lighter and brighter for you and me!

George B Staff

Photograph by The New York Edison Company

Imbued with a Dignity Which Does Much to Heighten the Charm of Fifth Avenue, the New York Public Library Suggests a Monument of Ancient Days When its Beautiful Facade is Bathed in the Rays of the Morning Sun

Photograph by The New York Edison Company

As Contractors, R A Belmont and Company, 906 Sixth Avenue, Make a Specialty of Wiring and Installations. A Section of the Store is devoted to Lighting Fixtures, Affording Opportunity to the Customer to Choose Readily. This Company Is One of the Long-Established Firms in This Part of the City

Photograph by The New York Edison Company

The Eureka Vacuum Cleaner Company Has Opened New Offices at 31 West 43d Street, in the district that is being so Rapidly and Extensively Changed by the Grand Central Development. Vacuum Cleaners are Always in Season in Warm Weather and in Cold, for Spring and Fall Cleaning, and for Light Summer Work

Manufacturers and Agents (Continued from Page 228)

Motors

General Uses (Concluded)

Electro-Dynamic Co The—Ave A Bayonne N J
Emerson Elec Mfg Co The—50 Church St
General Electric Co—120 Broadway
Holtzer-Cabot Electric Co—101 Park Ave
Howell Electric Motors Co—149 Broadway
Imperial Elec Co—253 Broadway
Janette Mfg Co—149 Broadway
Lincoln Electric Co—149 Broadway
Livingston J & Co—104 E 41st St
Mechanical Appliance Co—39 Cortlandt St
National Electric & Welding Co—145 W 18th St
Northwestern Mfg Co—6 Church St
Peerless Elec Co—147 W 35th St
Proud Taylor I Elec Co—114 W 54th St
Reliance Electric & Engineering Co—46 Dey St
Robbins & Myers Co The—30 Church St
Rochester Electric Products Corp—149 Broadway
Special Universal Motor Co—2739 Third Ave
Sprague Electric Works—527 West 34th St
Star Electric Motor Co—111 West 23d St
Wagner Electric Mfg Co—30 Church St
Wald Electric Motor Co—417 Canal St
Wesche B A Electric Co—110 W 40th St
Western Elec Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Inspection—Maintenance—Repairs

Belmont R A & Co Inc—906 6th Ave
Belyea Co—145 W 18th St
Blackall & Baldwin Co—39 Cortlandt St
Bogart A L Co—55 Barclay St
Bohn C C Electric Co—820 Sixth Ave
Borne Chas A Co Inc—35 Wooster St
Comstock Associate Co—21 E 40th St
Conlan Electric Corp—86 Walker St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Elec Machine Tool Co—50 Church St
Elec Motor Insp & Rep Co—1 Beekman St
Elec Repair Co—240 W 25th St
General Electric Inspection Co—237 Fulton St
Globe Elec Const &Rpr Co The—25 Cleveland Pl
Graham Bros Co—585 Hudson St
Hammill John—55 Ann St
Harlem Electric Co—6E 116th St
Jordan Bros Inc—74 Beekman St
Kelting Electric Co—116 Pearl St
Leve Robert E—19 E 32d St
Liebov Chas—231 Centre St
Maintenance Co The—417 Canal St
Marcato Elevator Co—146 West 99th Street
Naumer Elec Co—96 Beekman St
Naylor & Newton—243 Canal St
Peerless Engineering Co—147 W 35th St
Premier Emergency Corp—767 Third Ave
Proud, Taylor I Elec Co—114 W 54th St
Reliance Electric Inspection Co—241 W 20th St
Russell & Co—56 W 45th St
See C Van Dyck—39 Cortlandt St
Warner Co Geo M—338 W 21st St
Weiderman Geo Elec Co—35 Rose St
Westinghouse Elec & Mfg Co (Repair Shop)—467 10th Ave cor 36th St

Starters and Controllers

Allen-Bradley Co—50 Church St
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—46 White St
Curtis & Carhart Inc—150 Chambers St
Cutler-Hammer Mfg Co The—50 Church St
Electric Controller & Mfg Co The—50 Church St
General Electric Co—120 Broadway
Industrial Controller Co—18 Vesey St
Ward Leonard Electric Co—Mount Vernon N Y also 1902 Broadway
Westinghouse Elec & Mfg Co—165 Broadway

Used Motors

Archer & Baldwin—114 Liberty St
Belyea Co Inc—145 West 18th St
Cutter F B Co—50 Church St
Eisenberg General Con Co—149 Grand St
Graham Jas A—30 Church St
Holcomb D S & Co Inc—241 Canal St
Hooper James K—50 Church St
Klein & Co—208 Centre St
Manufacturers Equipment Exchange—Lafayette and Prince Sts
Oneida Elec Co—313 Canal St

Office Accessories

Edison Dictating Machine—Orange N J 114 Liberty St N Y C
Ensign Electric Calculating Machine—39 Cortlandt St
"The Dictaphone"—280 B'way
"The Millionaire" Cal Mach—1 Madison Ave

Pumps

Allis-Chalmers Mfg Co Inc—50 Church St
Beach-Russ Co—220 Broadway
Blackall & Baldwin Co—39 Cortlandt St
Boker H & Co Inc—101 Duane St
D'Olier Centrifugal Pump & Machine Co—503 Morris Building Philadelphia Pa
Electrical Repair Co Inc—240-242 West 25th St
Goulds Mfg Co—16 Murray St
Holland Machine Co—147 W 35th St
Lea-Courtenay Co—50 Church St
Marcato Elevator Co—146 West 99th St
Quimby William E Inc—120 West 32d St
Rider Ericsson Engine Co—20 Murray St
Rumsey Pump & Mach Co—75 Warren St
Twinvolute Pump and Mfg Co—55 William St
Washington Pump & Machinery Corp—115 Broadway
Western Elec Co—151 Fifth Ave and 105 W 40th St

Refrigeration

Automatic Refrigerating Co—50 East 42d St
Brunswick Refrigerating Co—30 Church St
De La Vergne Machine Co—Foot of East 138th St
Electrical Refrigerating Co—130 East 15th St
Johns-Manville H W Co—41st St & Madison Ave
Shipley Const & Sup Co—Columbia St Bklyn N Y
Voss Ice Mach Works—242 East 122d St
Walsh Electrical Supply Co (Household)—275 Madison Ave

Signs Electric

Bofinger Bros—146 East 42dSt
City Electric Sign Co Inc The—444 E 13th St
Federal Sign System—649 W 43d St
Fricker Frederick—430 11th Ave
Frink I P—24th St and 10th Ave
Gude O J Co—220 W 42d St
Mechling Charles J—477 Willis Ave
Norden Electric Sign Co Inc—311 W 40th St
Opal Sign Co—254 Tenth Ave
Pisch Electric Sign Co Inc The—314 W 44th St
Strauss & Co—306 W 52nd St
Strauss L L—560 Seventh Ave

Manufacturers and Agents (Continued)

Universal Elec Stage Lighting Co (Kliegl Bros) —240 W 50th St
Viking Sign Co Inc—560 Seventh Ave

Sign Flashers

Aplin B J—30 Church St
Betts & Betts Corporation—511 W 42d St
Irish W F Co—130 W 32nd St
Reynolds Elec Co—1123 Broadway

Specialties

Betts & Betts Corp (Fuses-Refillable)—511 West 42d St
Bonnell Elec Mfg Company (Construction)—192 Chambers St
Bromley-Merseles Mfg Co (Elec Glass Washers) —1328 Broadway
Chapin Chas E Co (Brushes for Dynamos and Motors)—201 Fulton St
Corliss Carbon Co (Motor & Generator Brushes) —114 Liberty St
Cutler-Hammer Mfg Co The—(Lighting & Wiring Devices)—50 Church St
Fulton-Bell Co (Elec Soda Mixers)—451 Greenwich St
Kirkman Engineering Corporation (Fuses)—237 Lafayette St
Mercantile Advertising Co (Window Display)—17 Battery Place
Minneapolis Heat Regulator Co (Thermostat Control for Furnaces)—Room 1735 Grand Central Terminal Bldg
Shelton Electric Co (Phonograph Motors)—16 E 42d St
S O S Electric Sales Co (Time Switches)—2 Columbus Circle
Whitehead J T & Son (Lamp Shades)—1009 Sixth Ave

Switch and Distributing Boards

Anderson A & J M Mfg Co—135 Broadway
Automatic Elec Devices Co—1966 Broadway
Automatic Switch Co—4 White St
Benjamin Electric Mfg Co—243 W 17th St
Crouse-Hinds Co—30 Church St
Empire Eng'g & Supply Co—1 Dominick St
General Electric Co—120 Broadway
Johns-Manville H W Co—Mad Ave & 41st St
Krants Mfg Co—160 Seventh St Bklyn
Metropolitan Elec Mfg Co—Long Island City
Metropolitan Engineering Co—1249 Pacific St Brooklyn
Rall Frederick—19 Park Pl
Sprague Electric Works—527 W 34th St
Trumbull Electric Mfg Co—114 Liberty St
Walker Electric Co—50 Church St
Western Electric Company—151 Fifth Ave and 105 W 40th St
Westinghouse Elec & Mfg Co—165 Broadway

Vacuum Cleaners

A & A Electric Co—535 Seventh Ave
Alpha Elec Co Inc—151 W 30th St
Belmont R A & Co Inc—906 6th Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 E 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Dreyfuss Co P M—150 Chambers St
Duntley Products Sales Co—9 E 35th St
Duparquet Huot & Moneuse—108 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electrical Corp—119 W 42d St
Frantz Premier Distrib Co Inc—2010 Broadway
Frost Samuel—41-43 W 14thSt
Guarantee Elec Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Hot Point Electric Heating Co—147 Waverly Pl
Hurley Machine Co—147 W 42d St
Innovation Electric Co Inc—585 Hudson St
Kimball Elec Co—23 W 37th St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Livingston J & Co—104 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Elec Equip Co—35 Vestry St
Ohio Electric Co Inc—145 W 45th St
Pittsburgh Elec Specialties Co—396 Broadway
Regina Co—47 West 34th St
Richmond Radiator Co—1480 Broadway
Simpson P—138 W 116th St
Sloane W & J—Fifth Ave and 47th St
Spencer Turbine Cleaner Co—101 Park Ave
Sturtevant Co B F—52 Vanderbilt Ave
Trainor S George—12 E 42d St
Tuec Company The—103 Park Ave
United Electric Company—103 Park Ave
Vacuum Cleaner Specialty Co—131 W 42nd St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St
Whitehead J T & Son—1009 Sixth Ave

Vibrators and Hair Dryers

Alpha Electric Co Inc—151 W 30th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Fox Electrical Corporation—119 W 42d St
Guarantee Electric Products Co—110 W 40th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Jorgensen John—114 Liberty St
Leahy John J Inc Elec Sup—48 Dey St
Lightolier Company—569 Broadway
Lindstrom Smith Co—41 Union Square
Livingston J & Co—104 E 41st St
Manhattan Electrical Supply Co Inc—17 Park Place 110 West 42d St 127 West 125th St
Morison Electric Supply Co—15 E 40th St
Sanitax Elec Co—143 E 23d St
Shelton Elec Co—16 E 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simpson P—138 W 116th St
Special Universal Motor Co—2739 Third Ave
Trainor S George—12 E 42d St
Walsh Electrical Supply Co—275 Madison Ave
Western Electric Co—151 Fifth Ave and 105 W 40th St
Whitehead J T & Son—1009 Sixth Ave

Washing Machines

A & A Electric Co—535 Seventh Ave
Alpha Elec Co—151 W 30th St
Apex Electric Home Appliance Co— 457 Gold St Brooklyn
Bell Harry A—47 West 38th St
Belmont R A & Co Inc—906 Sixth Ave
Bohn C C Electric Co—820 Sixth Ave
Comstock Household Service—21 East 40th St
Delahant J F Elec Sales Corp—112 W 42d St and 2490 Broadway
Domestic Laundry Equipment—224 W 26th St
Dreyfuss Co P M—150 Chambers St
Duparquet Huot & Moneuse—108 W 22nd St
Federal Sign System (Electric)—649 W 43d St
Fox Electric Corp—119 W 42d St
Frost Samuel—41-43 W 14th St
Gould Appliance Co—7 West 42d St

Manufacturers and Agents (Concluded)

Guarantee Elec Products Co—110 W 40th St
Hart Wallace B—46 E 41st St
Home Devices Corp—11 E 42d St
Hurley Machine Co—147 W 42d St
Kimball Electric Co—23 W 37th St.
Laun-Dry-ette Sales Co—36 W 37th St
Lightolier Co—569 Broadway
Livingston J & Co—104 E 41st St
National Sewing Machine—290 Broadway
"1900" Washer Co—46 E 41st St
Morison Electric Supply Co—15 E 40th St
Northwestern Electric Equipment Co —35 Vestry St
Pittsburgh Gage & Supply Co—119 W 42d St
Sibley-Pitman Elec Corp—190 Sixth Ave
Simpson P—138 W 116th St
Walsh Electrical Supply Co—275 Madison Ave
Western Elec Company—151 Fifth Ave and 105 W 40th St

Welders

Arc Welding Machine Co—220 W 42d St
Lincoln Electric Co—149 Broadway
National Electric & Welding Co—145 W 18th St
Siemund Wenzel Elec Welding Co—30 Church St
Welding Materials Co—114 Liberty St
Westinghouse Electric & Mfg Co—165 Broadway
Winfield Elec Welding Machine Co—50 Church St

Supply Dealers

Wholesale **Manhattan**

Alpha Elec Co Inc—151 W 30th St
Baily Elec Supply Co—18 Warren St
Brown Wm S Elec Co—3 West 29th St
Bunnell J H & Co—32 Park Pl
Burnet Co The—69 South St & 1800 Park Ave
Central Electrical Supply Co—4 West 16th St
Coast Electrical Supply Co—399 Pearl St
Crannell Nugent & Kranzer Inc—110 W 30th St
Goetz A Edgar Inc—55 Barclay St
Irish W F Co—130 W 32d St
Latham E B & Co—550-552 Pearl St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W—133 Liberty St
Morison Electric Supply Co—15 E 40th St
N W Elec Equip Co—35 Vestry St
Nugent Electrical Supply Co—7 W 29th St
Ostrander W R & Co—371 Broadway
Parr Electric Co—77 Warren St
Royal-Eastern Elec Supply Co—114-116 W 27th St
Sibley-Pitman Elec Corp—190 Sixth Ave
Smith J M & Son—4 E 8th St
Thomas & Betts Co—63 Vesey St
Western Elec Company— 151 Fifth Ave and 105 W 40th St
Weyant Electric Supply Co—185 Greenwich St

Retail

Belmont R A & Co Inc—906 6th Ave
Bohn C C Elec Co—820 6th Ave
Central Elec Supply Co—4 West 16th St
Crannell Nugent & Kranzer Inc—110 W 30th St
Duparquet Huot & Moneuse—108-114 W 22nd St
Fox Electrical Corporation—119 W 42d St
Frost Samuel—41-43 W 14th St
Fullerton Electric Co—15 W 20th St
Gotham Electrical Co—36 W 37th St
Hartt & Morison—780 Sixth Ave
Irish W F Co—130 W 32nd St
Killoch David Co—57 Murray St
Leahy John J Elec Supplies Inc—48 Dey St
Leveridge Chas W Inc—133 Liberty St
Manhattan Electrical Supply Co Inc—17 Park Pl 110 West 42d St 127 West 125th St
Metropolitan Elec Supply Co—126 W 36th St
Morison Electric Supply Co—15 E 40th St
Public Electrical Supply House—62 Essex St
Smith J M & Son—4 East 8th St
Weyant Elec Supply Co—185 Greenwich St
Whitehead J T & Son—1009 Sixth Ave

Bronx

Blackman & Guttman—226 E 144th St
Bronx Elec Supply Co The—612 Melrose Ave
Hub Elec Supply Co—558 Melrose Ave
Webber Supply Co The—358 E 149th St

Wiring and Installation Contractors

Arranged according to location in relation to the district offices of The New York Edison Company. On the last page is shown a map of the territory served by the company, with the districts indicated. Additional information regarding district boundaries, the offices and the representatives of the Contract and Inspection Department is also given.

Broadway District

Ann St 55—John Hammill
Beaver St 42—Hanover Elect Co
Beekman St 74—Jordan Bros Inc
Bleecker St 122—A Epstein
Broome St 308—M Zuckman
Canal St 199—Joseph Addison
Canal St 313—Oneida Electric Co
Canal St 417—The Maintenance Co
Cedar St 16—Wm Truswell & Son
Centre St 231—Liebov Chas
Christopher St 41—W Buch
Church St 30—B J Aplin
Church St 30—William Braun & Co
Cleveland Pl 25—Globe Electric Contracting & Repairing Company The
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 39—Blackall & Baldwin Co
Cortlandt St 84—Bleyle Elec Co
Frankfort St 26—E W Hazazer
Frankfort St 26-30—J F Bidstrup & Co
Front St 117—Charles Davidson
Fulton St 44—Ernest Klein & Bro
Fulton St 44—H A Murcke Co
Fulton St 62—Fulton Electric Co
Fulton St 237—General Electric Inspection Co
Grand St 149—Eisenberg General Con Co
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt, Watts & Tankard Co Inc
Greenwich St 255—Garret M Ross
Hudson St 74—J S Bihin
John St 84—Alfred Whiteley Inc
John St 107—William Englert
Laight St 22—G E Engineering Co
Liberty St 120—S Arthur Brown & Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 126—Thomas & Johnson
Maiden Lane 91—Weber & Jones
Nassau St 132—I A Adler Co
Nassau St 150—Graves, Graff & Dresser
Pearl St 116—Kelting Elec Co

Wiring and Installation Contractors (Continued)

Rector St 26—Rector Electric Co Inc
Rose St 35—Geo Weiderman Elec Co
Thomas St 68—J F Hughes Co
Trinity Place 70—Robert Elkan
Varick St 143—H C Griffin & Co Inc
Varick St 203—Riccio Electrical Contractors
Vesey St 53—F A Frey
Wall St 2—Edwin C Gee
West Broadway 176—O M Matzen & Co
West Broadway 397—A Fox
West Broadway 490—X L Machine & Elec Co
West St 116—Knickerbocker Electric Co
Wooster St 12—Durbrow & Hearne Mfg Co

Norfolk Street District

Bowery 166½—B Ackerman Inc
Broome St 114—B H Weinberg
Division St 133—Lincoln Electric Cont Co
East Houston St 93—I Berkowitz
East 3d St 136—H A Schreiber
East 5th St 416—Frank Bloom
Pitt St 141—Chas Kirschenbaum
Second Ave 73—J Brown
Stanton St 62—Sommer & Fuchs

Irving Place District

Bible House 78—Thos C Miller
Broadway 1168—Alliance Electric Co Inc
East 8th St 4—J M Smith & Son
East 9th St 320—Endig Electrical Works
East 13th St 2—B W Sandbach & Co
East 14th St 207—John Ryffel
East 14th St 409—S Newberger
East 15th St 6—Geo D Beinert Inc
East 22nd St 18—The Shultz Electric Co
East 22nd St 27—Hunt & Morgan
East 23d St 131—G C Kastner
East 25th St 122—Isidor Fajans
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—Wm Fredericks
East 28th St 112—Miller Electric Co
East 28th St 114—Burkart Elec Co
East 28th St 118—John Jay Gallagher Co Inc
East 28th St 118—Covic Electric Co
Fifth Ave 75—H M Walter
Fifth Ave 175—E B Stott & Co
Fourth Ave 333—Thomas L Dillon
Fourth Ave 373—Hatzel & Buehler Inc
Hudson St 585—S Edw Eaton & Co
Lexington Ave 47—William Hass
Lexington Ave 100—Behlert Elec Co
Sixth Ave 439—A Goldman & Co Inc
Third Ave 400—Irving Kenner Co
Union Sq East 10—J Menkes Eng Co
West 8th St 58—C S Harris
West 17th St 142—Harry A Hanft
West 18th St 145—Belyea Company
West 20th St 241—Reliance Elec Inspection Co
West 23d St 10—William J Shore
West 23d St 206—I Hoffman & Co
West 26th St 101—Pruver Electric Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc

Forty-second Street District

Broadway 1270—Croker Electric Co
Broadway 1368—Arrow Electrical Contracting Co Inc
Broadway 1400—Brackett & Colt
Broadway 1402—Gagen & Butler
East 29th St 41—S H Klein
East 32nd St 19—Robert E Leve
East 34th St 144—S W Electric Co
East 40th St 21—Comstock Associate Co
East 40th St 21—L K Comstock & Co
East 41st St 112—E F Rusie
East 42nd St 239—Hudson Elec Eng Co
East 45th St 70—Edwards Elec Construction C
East 45th St 70—J Livingston & Co Inc
East 45th St 70—Peet & Powers
East 53rd St 152—Alexander B Simpson
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 57—Stanley Ruth Co
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eleventh Ave 430—McLeod Ward & Co
Fifth Ave 320—J P Hall-Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Grand Central Terminal 1735—Geo V Cooper
Lexington Ave 186—R E Denike Inc
Lexington Ave 405—Nathan C Solomon
Lexington Ave 419—M Schweiger & Co
Lexington Ave 605—John Jay Bauer
Madison Ave 407—Manhattan Elec Cont Co
Ninth Ave 875—William D Munro
Park Ave 101—United Elec Construction Co
Park Ave 103—Stehlin-Miller-Henes Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Sixth Ave 632—John J Finn
Sixth Ave 819—Thomas Hindley & Son
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 884—P McGunnigle & Son
Sixth Ave 906—R A Belmont & Co Inc
Sixth Ave 1009—John T Whitehead & Son
Tenth Ave 486—George E Valley & Bros
Tenth Ave 578—Chas F Dunker
Third Ave 605—"B" Electric & Hardware Co
Third Ave 731—Metropolitan Electric Co
Third Ave 847—Rand Electric Shops
West 30th St 114—Tucker Elec Construction C
West 31st St 23—Louis Freund
West 31st St 109—Jandous Elec Equip Co In
West 33d St 221—E-J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—Harry Alexander Inc
West 34th St 110—Nimis & Nimis Inc
West 35th St 147—N Y Elec Installation Co
West 37th St 23—Kimball Elec Co
West 39th St 42—J Fischer Electric Co
West 40th St 105—Lord Electric Co
West 40th St 337—William W Ritchie
West 40th St 447—Manhattan Engineering Co
West 40th St 458—George L Ford
West 42d St 112— Oberg Blumberg & Beyer
West 42d St 112—J F Delahant Elec Sales Co
West 42d St 121—Conduit Wiring Co
West 42d St 220—A J Buschmann Co
West 43d St 352—Charles H Darmstadt Inc
West 43d St 603—H Lauer & Co
West 45th St 56—Russell & Co
West 45th St 100—Robert Bernecker
West 52d St 306—Strauss & Company Inc
West 53d St 350—Chas Weinz
West 54th St 114—Proud Taylor I Electric Co

Eighty-sixth Street District

East 69th St 20—N C Haynes
East 72d St 167—Edward J Dustman
East 77th St 149—Louis Segalbaum
East 79th St 185—D M Rousseau
East 89th St 72—Walter J Birkel
East 94th St 168—B Gliddon
East 95th St 156—Edward Zenker
Lexington Ave 767—Frise & Jantzer
Lexington Ave 1026—David H Morris
Lexington Ave 1110—The M & C Electric Co
Lexington Ave 1245—Julius E Woelfle

Wiring and Installation Contractors (Concluded)

Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Third Ave 1021—E Kalkau
Third Ave 1373—H Goldberg
Third Ave 1397—Chas J Eichman
Third Ave 1915—I Gabriel

One Hundred and Twenty-fifth Street District

Amsterdam Ave 868—Joseph Rice
Amsterdam Ave 913—Lewis F Shulman
Amsterdam Ave 943—P T Dunn
Broadway 1939—Bull-Du Roy Electric Co
Broadway 2314—McCabe & Widmayer
Broadway 2343—Howard S Beidleman
Broadway 2490—J F Delahant Elec Sales Corp
Columbus Ave 144—E May Inc
Columbus Ave 220—Thomas F Carr
Columbus Ave 294—P F Gilmartin & Co
Columbus Ave 348—H Flower
Columbus Ave 517—Samuel Millinger
Columbus Ave 549—Hoffman & Elias
Columbus Ave 560—R D Langley
Columbus Ave 649—Ernest Craske
East 125th St 77—Peter Jansen
East 125th St 163—F J Rush
Park Ave 1630—Wimple Electric Co
Park Ave 1755—C V Gedroice & Co
Seventh Ave 2286—Nathan Zolinsky
West End Ave 165—F W Astarita
West 72d St 176—Kaufman & Burkert
West 83d St 121—C J Christesen
West 98th St 171—Charles H Baker
West 100th St 204—L Koehler
West 116th St 138—P Simpson Inc
West 116th St 227—Lewis S Davis
West 125th St 77—H Kaufman
West 125th St 215—M J Heller Elect Co
West 125th St 243—Planet Elec & Sup Co

Bronx (Melrose District)

Dawson St 674—J Lowe
East 138th St 356—Ross Edwin L
East 138th St 379—Herman H Ellerbrock
East 140th St 339—Frank S Pircher
East 141st St 390—Paul Oehmke
East 141st St 470—Dorler & Domis
East 152nd St 926—Jos B Josephson
East 162d St 860—Jos Starobin
East 163d St 736—Sayles Electric Co
East 167th St 460—M Schwarzler & Son
Elton Ave 673—Jacob Landy
Gouverneur Place 5—Uhlendorf Gus
Intervale Ave 939—Thomas Evans
Jackson Ave 1046—Joseph Edelmuth
Morris Ave 836—Daniel W Davis
Morris Park Ave 685—M Wm Smith
Prospect Ave 1382—Sidney Cannold
Taylor Ave 1243—Joseph F Vielberth
Third Ave 2586—Albert F Eggers
Third Ave 2739—Special Universal Motor Co
Third Ave 2998—I Gurland
Third Ave 3440—Frank Sladek
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altmann
Westchester Ave 847—Arrow Elec Shops Inc
Whitlock Ave 915—Rosenfield & Harris
Willis Ave 319—Alexander White
Willis Ave 508—J J Mathias

Bronx (Tremont District)

Briggs Ave 2580—Neilson Brothers
East 180th St 305—F H Hegeler
East 180th St 447—M J Dwyer
East 180th St 815—Robert C Martin
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East Fordham Road 273—Endig Elect Works
Hughes Ave 1967—Frank McMahon
Jerome Ave 2355— Lewis H Woods Inc
Jerome Ave 2375—Mills & Svenson
Park Ave 4206—Hugh J Casey
Webster Ave 3113—J F Howe
West Fordham Road 32—Edw W Dunn

Yonkers

Cedar St 28—John Kips
Crestwood—W J Snow
Main St 45—Youmans Electric Co
Main St 73—Westchester Elec Equipment Co
Main St 73—Yonkers Lighting Fixture Co
Manor House Square 7—Lewis Mayer
Nepperhan St 30-32—Leslie D Briant
Overlook Terr 12—J E Stillman & Co
Riverdale Ave 16—Stroh Electric Co
Riverview Place 12—Wm A Haussler
Warburton Ave 42—Excelsior Gas & Elec Fix Co
Warburton Ave 42—Nugent Electric Co

Authorized Mazda Lamp Agents

The following list is arranged according to location in relation to the district offices of The New York Edison Company. See map on inside back cover.

Broadway District

Barclay St 55—A Edgar Goetz Inc
Barclay St 109—Spilger Electric Co
Barrow St 25—Jos Torre
Beaver St 21—J Hillgardner & Son
Beaver St 24—Samuel Lakow
Beaver St 42—Hanover Electric Co
Beekman St 74—Jordan Bros
Beekman St 96—Naumer Electric Co
Bleecker St 13—Schwartz & Blumengarten
Bleecker St 63—Harry Hyman
Bleecker St 122—A Epstein
Bleecker St 178—Rocco Secco
Broad St 39—Beaver Electric Co
Broad St 41—Industrial Supply Co
Broad St 68—Broad Equip Co of N Y
Broad St 122—Stewart Dickson & Co
Broadway 1—William Vautin
Broadway 195—Western Electric Co Inc
Broadway 253—Porter Elec Co
Broadway 371—Rabinowitz & Kluger
Broadway 402—Edison Electric Lamp Co
Broadway 405—Campbell Lamp Co Inc
Broadway 433—Ideal Gas & Electric Fix Co
Broadway 434—Crown Elec Illg Co
Broadway 435—Radiant Electric Lmp Co
Broadway 489—Sunlight Electric Co
Broadway 569—Lightolier Co
Broadway 583—Eclipse Light Co
Broadway 652—New Era Appliance Corp
Broome St 308—Max Zuckman

Authorized Mazda Lamp Agents (Continued)

Broome St 431—Columbia Elec Illg Corp
Canal St 199—Joseph Addison
Canal St 243—Van Ben Thuysen Robt Co Inc
Canal St 262—Maxim Elec Corp
Canal St 266—R A Brown Electric Co
Canal St 313—Oneida Electric Co
Canal St 336—Honowatt Elec Import Co
Canal St 417—The Maintenance Co
Canal St 481—W E Tranter
Carmine St 7—Phoenix Hardware Co
Cedar St 16—Wm Truswell & Son
Centre St 211—Patterson Gottfried & Hunter
Centre St 231—Worth Electric Co
Chambers St 101—Broadway Hardware Co
Chambers St 105—Holloway-Bentz & Co
Chambers St 105—H A Polhemus
Chambers St 130—Acker Merrall & Condit Co
Chambers St 150—Curtis & Carhart Inc
Church St 30—Wm Braun & Co
Church St 30—E A Delaney
Church St 30—P A McGuire
Church & Vesey Sts—Metropolitan Hardware Co
Cleveland Pl 25—Globe Electric Co
Cortlandt St 26—Cleveland & Ryan
Cortlandt St 38—Fred Kraft Inc
Cortlandt St 39—W S Broadhurst
Cortlandt St 70—Pabst Elec Co
Cortlandt St 84—Bleyle Electric Co
Cortlandt St 86—A E Gelling
Dey St 23—Cleveland & Ryan
Dey St 48—John J Leahy
Dey St 65—M K Bowman-Edson Co
Duane St 23—Empire Elec Co
Frankfort St 26-30—J F Bidstrup & Co
Frankfort St 65—W E Chandler
Front St 52—Flitner Atwood Co
Front St 54—Ocean Ship Chandlery Co
Front St 62—William E Williams
Front St 117—Charles Davidson
Front St 162—W S Pendleton Jr & Co
Front St 203—Joseph Barre & Co
Fulton St 26—James H Addison
Fulton St 29—A F Brombacher & Co
Fulton St 44—E Klein & Brother
Fulton St 62—Fulton Electric Co
Fulton St 105—Montgomery & Co
Fulton St 110—Marlen Hdwe Co
Fulton St 226—International Elec Co
Fulton St 235—American Elec Technical App Co
Fulton St 237—General Elec Inspection Co
Gold St 46—Van Axen Elec Co
Grand St 59—Paul Silverstone
Grand St 176—North American Chandelier & Supply Co
Grand St 179—Max Shur
Grand St 182—Columbia Gas & Elec Fix Co
Grand St 200—Pyramus Manufacturing Co
Grand St 211—Interborough Lighting FixtureCo
Grand St 417—N Y Addison Elec Works
Great Jones St 5—Geo F Steinert Co Inc
Great Jones St 9—MacNutt Watts & Tankard Co Inc
Greenwich Ave 17—Nathan Staulsky
Greenwich St 25—Wm Storms
Greenwich St 70—Whitehall Elec Co
Greenwich St 86—Wm Claman
Greenwich St 255—G M Ross
Greenwich St 460—A F Beckman & Co
Hudson St 48—J J Bigelow Co
Hudson St 207—James D Mills
Hudson St 290—Charles Cory & Son Inc
Hudson St 372—Henry Frank
Hudson St 495—J Friedman
Hudson St 585—S Edw Eaton & Co
Jefferson St 14—Jefferson Elec Co
John St 82—Joseph W Reynolds
John St 84—Alfred Whiteley Inc
John & Nassau Sts—Carnahan & Dalzell
Lafayette St 100—J A Hurdle
Liberty St 1—W J Wayte Inc
Liberty St 120—Chas W Osburg Co
Liberty St 120—Watson-Flagg Engineering Co
Liberty St 120—Welborne & Co Inc
Liberty St 123—Smith-Meeker Eng Co
Liberty St 126—Thomas & Johnson
Liberty St 133—Chas W Leveridge Inc
Maiden Lane 91—Weber & Jones
Mercer St 305—Ensor & Co
Mott St 44—Quong King Long Co
Murray St 23—Stanley & Patterson
Murray St 43—Conlan Electric Co
Murray St 47—E Ullman & Sons
Murray St 57—David Killoch Co
Nassau St 20—Jas O Oliver & Co
Nassau St 82—Rudolph Weidhofer
Park Place 17—Manhattan Elec Supply Co
Park Place 32—J H Bunnell & Co
Park Place 44—Tidewater Elec Co
Park Place 52—Domestic Electric Co
Park Row 143—Ben Weiner
Park Row 163—Advanced Elec Lamp Co
Pearl St 35—Henry A Kissel & Co
Pearl St 116—Kelting Electric Co
Pearl St 187—Elite Elec Co
Pearl St 399—East Coast Elec Sup Co
Prince St 44—Louis Iorio
Prince St 57—Manufacturers' Equipment Exchange Company
Prince St 143—Patten Brown Co
Rector St 26—Rector Electric Co
Roosevelt St 12—John Crovo
Rose St 35—Geo Weiderman Elec Co Inc
Sixth Ave 82—Eastern Electric Works
South St 47—Richards Frank & Gardner Co
South St 69—The Burnet Co
Spring St 50—Arnolde Migliacoio
Spring St 192—John Parisi
Stanton St 49—J N Grossman
Stanton St 173—Schacht Electrical Co
Sullivan St 29—Bayne Co
Thomas St 68—J F Hughes Co
Trinity Place 70—Robert Elkan
Trinity Place 70—Marine Elec Co
Varick St 143—H C Griffin & Co
Varick St 203—Riccio Electrical Contractors
Vesey St 45—Casey Naser Elec Co
Vesey St 59—L Gabler & Son
Vestry St 35—Northwestern Electric Equip Co
Vestry St 80—R J Masbach
Walker St 86—Conlan Elec Co
Warren St 8—Bozart Lighting Co
Warren St 18—Baily Elec Sup Co
Warren St 20—Shapiro & Aronson
Warren St 45—Robbin Lighting Fixture Co
Warren St 56—City Supply Co
Warren St 67—Northern Elec Co
Warren St 77—Parr Elec Co
Warren St 97—Wm E Glaeser
Warren St 113—Warner Service & Repair Corp
Warren & Church Sts—Perlman Auto & Cycle Supply Co
Washington St 81—Rector Electric Co
Water St 39—Baker, Carrerr & Morell
Water St 52—Lund & Miller
West Broadway 152—Wheeler & Lent
West Broadway 397—A Fox
West Broadway 409—Elec Motor & Rep Co
West Broadway 414—A Shimell & Co
West Broadway 438—W B Koppelmann
West Broadway 484—Chas R Ruegger
West Broadway 506—Shotwell Elec Co
West Broadway 512—A N Peller
West St 90—C C Galbraith & Son

Authorized Mazda Lamp Agents (Continued)

West St 117—George J Beattie
West 3rd St 9—Ben Hymowitz
West 3rd St 45—Center Electric Motor Co
West 4th St 31—Feldman Machine Works
West 4th St 41—Washington Elec Co
West 4th St 167—Amperes Electrical Co
Whitehall St 28—Johnasen Electric Co
Whitehall St 47—R W Zundel
William St 157—Milton C Beck
Wooster St 176—Jos Kerne

Norfolk Street District

Avenue A 196—F W Schneider
Avenue D 2—The New Interboro Electric Co
Ave D 2—Yorkville Elec Fixt Co
Bowery 104—Lighting Sales Co
Bowery 118—United Incandescent Gas Light Company
Bowery 131—Kupferberg Ltg Fixture Co
Bowery 135—Eureka Lighting Fixt Co
Bowery 138—Baumann & Loeb Inc
Bowery 144—Phenix Ltg Fix Co.
Bowery 146—New Home Gas & Elec Fix Co
Bowery 166½—B Ackerman Inc
Bowery 206—Superior Elec Fixture & Appliance Co
Bowery 216—Economic Arc Light Co
Bowery 250—Metro Lighting Fixt Supply Co
Bowery 260—Schimel Lt & Fix Co
Bowery 262—Alt-Le Fixture Co
Bowery 272—Louis Rice
Bowery 273—Beacon Sales Co
Bowery 280—United Lighting Fixture Co
Bowery 327—A Klorman
Bowery 342—I Butensky
Broome St 114—B H Weinberg
Broome St 317—Pioneer Lighting Fixture Co
Broome St 327—N Y Gas Light Co
Chrystie St 86—Consolidated Elec Supply Co
Clinton St 91—A Z Electrical Supply Co
Delancey St 84—Frank Silverman
Delancey St 102—Rubin Bros
Delancey St 188—The Electric Shop
Division St 87—Soffen Brothers
Division St 133—Lincoln Cont Co
East Broadway 88—Minkowitz & Cohen
East Broadway 131—Daniel Menchel
East Houston St 40—Mutual Electric Co
East Houston St 80—General Lamp Co
East Houston St 93—I Berkowitz
East Houston St 170—D Stein
East Houston St 306—M Lasky
East 2nd St 86—Samuel Konowitz
East 3rd St 219—Federal Elec Sup & Cont Co
East 4th St 36—Max Leaf
East 4th St 69—Eastern Electric Works
East 4th St 75—Charles Lipschultz
East 4th St 128—Isadore Schajowicz
Essex St 62—Public Elec Supply House
Essex St 175—W Katz
Forsyth St 101—Supreme Gas & Elec Supply Co
Forsyth St 142—J Zucker
Forsyth St 182—Ben Goldberg
Henry St 121—James Drucker
Monroe St 11—Anglo Amer Elec Co
New Chambers St 4—Louis Purcaro
New Chambers St 22—Clover Electric Co
Norfolk St 57—Guarantee Chandelier Co
Norfolk St 70—Goran Chandelier Co
Norfolk St 79—Cooperson Electrical Shop
Pike St 12-14—M Grundfast & Bros
Pike St 30—Freeman Bros
Rivington St 265—M Franzblau
Second Ave 73—J Brown

Irving Place District

Bible House 75—N H Bresel
Bible House 78—T C Miller
Broadway 1155—Empire Electric Co
Broadway 1168—Alliance Elec Co
Christopher St 41—W Buch
Christopher St 91—Atlas Electrical Supply Co
Cooper Square 10—Philip Adison Elec Supply Co
Cooper Sq 32—L Barth & Sons
East 8th St 4—J M Smith & Son
East 8th St 16—Arthur Malngani
East 8 St 31—N Y Elec Motor Exchange
East 9th St 57—George Murphy
East 10th St 30—Spero & Cohen
East 10th St 56—N Gorin
East 10th St 78—Prager & Davidson
East 10th St 84—G & G Elec Supply House
East 11th St 63—Barth Motor Rep Co
East 11th St 70—E B Forslund Electric Co
East 13th St 5—Edison Lamp Service Co Inc
East 13th St 34—A L Todd
East 14th St 7—William Landau
East 14th St 10—Acme Electric Co
East 14th St 10—Advanced Elec Co
East 14th St 19—Moto-lite Electric Co
East 14th St 207—John Ryffel
East 14th St 421—Hanson Bros
East 15th St 6—Geo D Beinert Inc
East 22d St 18—Consumers Elec Lamp & App Company
East 22d St 27—Charles Elec Co
East 23rd St 24—I T Johnson Co Inc
East 23rd St 28—A Marchard
East 23rd St 131—Chas Besler & Co
East 23rd St 147—Corubia Elec Co
East 23rd St 204—Geo I Roberts & Bros
East 25th St 122—Isidor Fajans Inc
East 26th St 215—G W Gates
East 27th St 143—Van Wagoner-Linn Cons Co
East 28th St 37—William Fredericks
East 28th St 112—Miller Elec Co
East 28th St 114—Burkart Electric Co
East 28th St 118—Covic Elec Co
East 28th St 118—John J Gallagher Co Inc
Eighth Ave 16—A Hauser
Eighth Ave 97—Nathan Eisenberg
Eighth Ave 153—The Marcus Store
Eighth Ave 275—Chas De Arden
Eighth Ave 305—J B Hooper
Eighth Ave 378—Wm Purdy
Fifth Ave 75—H M Walter
Fifth Ave and 26th St—Park & Tilford
First Ave 226—Isidore Wachtel
First Ave 312—A Koppeman
Fourth Ave 108—I Gluck
Fourth Ave 121—Borough Elec Co
Fourth Ave 333—C B Mount
Fourth Ave 373—Hatzell & Buehler
Lexington Ave 29—Liberty Elec Co
Lexington Ave 47—Wm Hass
Lexington Ave 100—Behlert Elec Co
Ninth Ave 7—David Greenfield
Ninth Ave 26—Kleinhardt Hdwe Co
Ninth Ave 130—Goldberg & Rubinstein
Ninth Ave 277—Isaac Brand
Second Ave 146—Miller Auto Supply Co
Seventh Ave 182—Finkelstein Bros
Seventh Ave 188—M Wagman
Seventh Ave 189—E Christensen
Seventh Ave 219—Subway Hardware Co
Seventh Ave 227—The Little Electric Co
Seventh Ave 243—Keppler Bros

Authorized Mazda Lamp Agents (Continued)

Seventh Ave 267—Superior Elec Co
Seventh Ave 296—B Adler
Sixth Ave 147—McGeady Electric Co
Sixth Ave 182—Chas H Bingler
Sixth Ave 183—M A Karp
Sixth Ave 333—Pearl Sewing Mach Co
Sixth Ave 379—Sandback-Gilbert Elec Co
Sixth Ave 394—Wm Miller
Sixth Ave 406—Hoch & Fischbach
Sixth Ave 423—J Scheman & Co
Sixth Ave 426—Max Sandak
Sixth Ave 439—A Goldman & Co
Sixth Ave 448—Irving Trubitz
Sixth Ave 451—M Levin
Stuyvesant St 14—Julius Kupatt
Third Ave 71—Sunbeam Elec Supply Co
Third Ave 184—Henry Green
Third Ave 246—Metropolitan Electric Lamp Co
Third Ave 276—S Greisman
Third Ave 317—Chelsea Elec Co
Third Ave 384—D B Pershall & Son
Union Sq 32—Leco Elec Lamp Co
University Pl 50—Standard Elec & Repair Co
Washington Sq 64—Louis Reali
West 8th St 58—C S Harris
West 13th St 107—Dale Ltg Fix Co
West 13th St 308—State Elec Supply Co
West 13th St 408—Bullock Mfg Co
West 14th St 41-3—Sam Frost
West 14th St 112—Raphael Morris & Co Inc
West 14th St 132—Acme Lighting Fixture Co
West 14th St 232—Wm H Crary
West 14th St 249—Alexander Stock
West 14th St 310—Monroe Lamp Co Inc
West 14th St 425—Chelsea Eng Sales Co
West 15th St 22—Simes Co
West 16th St 4—Central Elec Supply Co
West 16th St 111—E Korkes
West 17th St 10—Marcus Itzkowitz
West 17th St 15—Fletcher Elec Co
West 17th St 18—Max Friedlander
West 17th St 44—Rambeau & Sheflin
West 17th St 46—W & T Machine Co
West 17th St 48—Beidner Elec Co
West 17th St 102—Perlman Elec Co
West 17th St 105—Manhattan Elec Lighting Co
West 17th St 108—Manhattan Elec Cont Co
West 17th St 142—Harry A Hanft
West 17th St 148—Keystone Elec Lamp Co
West 17th St 227—Lighting Eng Service Co
West 19th St 25—Horowitz & Leff
West 19th St 40—Lewis Harbitter
West 19th St 203½—Raphael & Losty
West 19th St 263—Radice Elec Co
West 19th St 270—Warren Electric Co
West 20th St 21—Fine & Sternhell
West 20th St 25—R & R Sewing Machine Co
West 20th St 35—Boris Pedell
West 20th St 120—Reliable Sewing Machine & Electric Company
West 20th St 241—Reliance Electric Inspection Company
West 21st St 9—Ferber Electric Co
West 21st St 126—Morris Gika
West 23rd St 113—Uneeda Elec Co
West 23rd St 235—Eastman Kodak Co
West 23rd St 241—Riviere Brass & Bronze Co
West 23d St 508—United Elec Rep & Sup Co
West 24th St 57—Goodman Jablon
West 25th St 105—Samuel Vogel
West 26th St 101—Pruver Electric Co
West 26th St 130—Metropolitan Electrical Protective Company
West 26th St 160—Jawitz Elec Motor Co
West 27th St 114—Royal Eastern Elec Sup Co
West 27th St 259—Walter J Birkel
West 28th St 213—Reis & O'Donovan Inc
West 28th St 264—Irving Corin

Forty-second Street District

Broadway 1178—Electro Magnet Co
Broadway 1215—Columbia Elec Co
Broadway 1215—B W Glick
Broadway 1288—Electro Magnet Co
Broadway 1358—Siems & Co
Broadway 1368—Arrow Electric Shop Inc
Broadway 1400—Allied Eng Co Inc
Broadway 1400—Brackett & Colt
Broadway 1400—Durable Lamp Co
Broadway 1402—Gagen & Butler Inc
Broadway 1416—H R Lockwood Co
Broadway and 41st St—Park & Tilford
Broadway 1604—United Theatre Equip Corp
Broadway 1634—Emil Richter
East 29th St 34—Albin Gustafson Co
East 29th St 41—S H Kline
East 30th St 2—Simpson Electric Co
East 32nd St 19—R E Leve
East 34th St 211—Paul Prodromides
East 35th 162—James Caso
East 38th St 202—Sussman & Sussman
East 38th St 214—Murray Elec Cons Co
East 40th St 15—Morison Elec Supply Co
East 40th St 16—Sterling Bronze Co
East 40th St 21—Comstock Associate Co Inc
East 41st St 104—J Livingston & Co
East 42nd St 18—Herbert & Huesgen Co
East 42nd St 146—Bofinger Bros
East 42nd St 236—H F Electric Co
East 42nd St 239—Hudson Elec Eng Co
East 44th St 157—G E Walter
East 44th St 203—Grand Central Eng Co
East 45th St 70—Edwards Electrical Con Co
East 45th St 70—J Livingston & Co
East 47th St 17—Black & Boyd Mfg Co
East 48th St 201—Tiedelmann & Bohrer
East 57th 206—Paul F Weinbeer
East 57th St 227—Morris Levi & Co
East 59th St 30—K R Schullstrom
East 59th St 126—N Y Supply & Inspection Co
East 59th St 150—J L Goodrich
East 59th St 204—R C Bankow
East 59th St 221—American Ltg Fix Co
East 59th St 224—S Green
East 59th St 241—S A Ecker
Eighth Ave 368—Luft & Luft
Eighth Ave 376—White Elec Eng Co
Eighth Ave 495—W G Company
Eighth Ave 634—A W Gerstner
Eighth Ave 712—George Walker & Sons
Eighth Ave 882—W E Nichols Corp
Eighth Ave 902—Wm Eylers
Eighth Ave 956—A J Wilson
Fifth Ave 253—N Y Electric Lamp Co
Fifth Ave 320—J P Hall Smith Co
Fifth Ave 503—Alfred U Keedwell & Co
Fifth Ave 503—C E Toye
Fifth Ave 507—A Van Tassel
Fifth Ave 520—E B Meyrowitz Inc
Fifth Ave 621—Roseville Pottery Co
Fourth Ave 460—Hoyt Electric Co
Grand Central Terminal Building—Concourse Electric Shop
Grand Central Terminal Bldg—Room 1735 Geo V Cooper
Lexington Ave 186—Robert Denike
Lexington Ave—419 M Schweiger & Co
Lexington Ave 581—J F Boland
Lexington Ave 605—J J Bauer

Authorized Mazda Lamp Agents (Continued)

Lexington Ave 675—L Singer
Lexington Ave 677—Theo Fohs
Lexington Ave 769—Colonial Gvt & Elec Cont Company
Lexington Ave 985—James H Rhind
Madison Ave 275—Walsh Electric Supply Co
Madison Ave 367—Tiffany Studios
Madison Ave 407—L G Wallis
Madison Ave 418—Edward J Dewey Co
Madison Ave and 58th St—Park & Tilford
Madison Ave 605—Herbert Gordon
Madison Ave 619—Frankie Alffias
Madison Ave 631—Kellog & Bertine
Ninth Ave 630—Nathan Marks
Ninth Ave 875—Wm D Munro
Ninth Ave 888—S Danowitz
Park Ave 101—Wahle Phillips Co
Park Ave 103—Chas J Conklin
Park Ave 103—Stehlin Miller Henes Co
Second Ave 1100—Arnold Stahl
Second Ave 1111—New Bank Elec Supply Co
Seventh Ave 468—Bank Elec Co
Seventh Ave 535—A & A Electric Co
Seventh Ave 560—L L Strauss
Seventh Ave 729—Howell's Cine Equipment Co
Seventh Ave 729—Independent Movie Sup Co
Seventh Ave 729—B F Porter
Seventh Ave 830—P Lotwin
Sixth Ave & 57th St—Acker Merrall & Condit Co
Sixth Ave 409—Lebowitz & Co
Sixth Ave 493—Louis Doushkess
Sixth Ave 510—M Siegel
Sixth Ave 635—John J Finn
Sixth Ave 636—Fred B Zender
Sixth Ave 780—Hartt & Morrison
Sixth Ave 819—Thos Hindley & Son Inc
Sixth Ave 820—C C Bohn Electric Co
Sixth Ave 874—J Gretzer
Sixth Ave 906—R A Belmont & CoInc
Sixth Ave 907—Harris Schwartz
Sixth Ave 947—JohnW Flint
Sixth Ave 982—Edw Nicholson
Sixth Ave 1009—John T Whitehead
Sixth Ave 1039—Mt Morris Auto Sup Sta
Tenth Ave 425—Ace Electric Co
Third Ave 400—Irving Kenner Co
Third Ave 421—H Simon
Third Ave 425—S J Feingold
Third Ave 444—Fred Hardy
Third Ave 458—Chas F Constable
Third Ave 474—Leon Gluchowsky
Third Ave 497—Manhattan Hdwe & Tool Corp
Third Ave 518—Davis Bros
Third Ave 602—E G Schwarz
Third Ave 605—"B" Electric & Hdwe Co
Third Ave 647—Julius Gabler
Third Ave 693—M Silverman
Third Ave 728—Benj Gillespie Co
Third Ave 731—N D Lyons
Third Ave 731—Metropolitan Elec Co
Third Ave 766—Adolph Raffner
Third Ave 767—Premier Emergency Corp
Third Ave 849—Rand Electric Co
Third Ave 918—Sidney Frey
Third Ave 943—Buyers Electrical Co
Third Ave 959—Frise & Jantzer
Vanderbilt Ave 52—Ryan & Dippel Inc
West 29th St 7—Nugent Elec Supply Co
West 29th St 11—Electrical Wiring & Installation Company
West 29th St 103—Keystone Elec Co
West 30th St 22—Madison Elec Supply Co
West 30th St 23—Guarantee Sewing Mach Co
West 30th St 110—Crannell Nugent & Kranzer
West 30th St 114—Tucker Elec Const Co
West 30th St 151—Alpha Electric Co Inc
West 31st St 23—Louis Freund
West 31st St 54—Joseph Kurzon
West 31st St 109—Jandous Elec Equipment Co
West 31st St 112—J Rosenthal
West 31st St 153—Crasno & Kobler
West 32nd St 110—C G Willoughby
West 32nd St 130—W F Irish Co
West 33rd St 2—Ideal Elec Cont Co
West 33rd St 25—Harry Alexander
West 33rd St 221—E J Elec Installation Co
West 34th St 1—Electrical Equipment Co
West 34th St 20—H Alexander
West 34th St 45—Wiedenbach-Baker & Co
West 34th St 47—Manhattan Elec Supervision
West 34th St 208—Joseph F Roberts
West 34th St 408—Manhattan Lamp Service
West 35th St 147—N Y Elec Installation Co
West 35th St 222—Levinson Elec Co
West 35th St 162—James Caso
West 35th St 248—Knapp Ritzner Co Inc
West 35th St 419—Gordon & Koppelson
West 36th St 126—Metropolitan Elec Sup Co
West 37th St 36—Gotham Elec Co
West 37th St 44—Fred B Zenker
West 37th St 58—Roesser Studios Inc
West 38th St 66—Herald Lamp Service
West 39th St 526—Electric Mechanical Machine Company
West 40th St 105—Publicity Clock Co
West 40th St 108—World Lighting Appliance Co
West 40th St 143—Smith Elec Co
West 41st St 103—Teale Supply Co
West 41st St 243—R Kast
West 41st St 252—Starr Elec Co
West 42nd St 7—Gould Appliance Co
West 42nd St 13—Chas T Henry
West 42nd St 110—Manhattan Elec Sup Co
West 42nd St 112—Oberg Blumberg & Bleyer
West 42nd St 114—J FDelahant Elec Sales Co
West 42nd St 119—Fox Electrical Corp
West 42nd St 121—Conduit Wiring Co
West 42nd St 121—Empire Lighting Fixture Co
West 42nd St 135—Acker Merrall & Condit Co
West 42nd St 220—A J Buschman Co
West 42nd St 220—Lighting Studios Co
West 42nd St 309—Natl Elec Motor Repair Company
West 42nd St 316—Mitchell Borna
West 42nd St 318—Herald Sq Elec Co
West 42nd St 325—Knickerbocker Chandelier & Electrical Supply Co
West 42nd St 330—Concord Elec Shop
West 42nd St 416—Hess & Hicks
West 42nd St 420—Stroh & Wilson
West 42nd St 437—G W Giannini
West 42nd St 442—Sharlow Bros Co
West 42nd St 529—Park & Tilford
West 43rd St 122—Collins & Wagner Mfg Co
West 43rd St 267—Eagle Elec Co
West 44th St 300—Sommerville Elec Cont Co
West 44th St 314—Display Stage Ltg Co
West 44th St 354—Starling Elec Supply Co
West 46th St 63—Thomas B Adams
West 46th St 142—Capitol Motion Picture Sup Company
West 46th St 150—Crown Motion Picture Sup
West 46th 308—Gabriel Hirsch
West 47th St 310—H J McKinnon
West 48th St 304—Joseph Beck
West 49th St 26—Guaranty Elec Lamp Co
West 49th St 238—Long Acre Elec Shop
West 49th St 247—E G Sturdevant
West 50th St 240 (Kliegl Bros)—Universal Electric Stage Light Co

Authorized Mazda Lamp Agents (Continued)

West 52nd St 134—James Martin
West 52nd St 136—Brand Elec Co
West 52nd St 258—W E Pruden Hdwe Co
West 52nd St 301—Rialto Electric Shop
West 52nd St 304—Rialto Elec Stage Lt Co
West 52nd St 306—Strauss & Co Inc
West 52nd St 533—Americolite Co
West 53rd St 413—Frank Pisch
West 53rd St 449—N Y Calcium Light Co
West 54th St 100—M S Bell
West 54th St 413—E G Clarke
West 55th St 76—Wm Donat Jr

Eighty-sixth Street District

East 71st St 236—L & A Katz
East 71st St 419—Joseph B Josephson
East 72nd St 167—E J Dustman
East 74th St 175—D Jarazever
East 77th St 149—Jos Schwartz
East 79th St 185—D M Rousseau
East 84th St 158—Gabriel Erdos
East 86th St 147—White Donnelly Elec Co
East 86th St 341—L S Metzger
East 95th St 156—Edward Zenker
East 103rd St 174—Barnett Fischsohn
First Ave 1210—Louis Dattner
First Ave 1337—Wm Linhart
First Ave 1461—Fuld & Fuld
First Ave 1756—Chas H Bayer
Lexington Ave 1026—David H Morris
Lexington Ave 1110—M & C Elec Co
Lexington Ave 1235—Yorkville Auto Supply Co
Lexington Ave 1296—M Strompf
Lexington Ave 1307—Kirschen Bros
Madison Ave 806—Madison Elec Co
Madison Ave 922—Paul Sawallisch
Madison Ave and 76th St—Park & Tilford
Madison Ave 1046—Haberman Bros
Madison Ave 1122—S Shearn
Madison Ave 1182—DoWell Elec Co
Madison Ave 1190—Potts Olmstead & Habel
Madison Ave 1519—Jacobson & Feldherr
Madison Ave 1532—Stein-Horowitz Hdwe Co
Madison Ave 1579—Hyman N Farin
Park Ave Corner 78th St—Acker Merrall & Condit Company
Park Ave 435—Triangle Electric Contr Co
Park Ave 588—T J McGunnigle
Park Ave 1043—Joseph K Rotholz
Park Ave 1086—S Littman
Park Ave 1124—John B. Schramm
Park Ave 1236—Isidor Streiffer
Second Ave 1178—Charles Averman
Second Ave 1395—Fred Saffian
Second Ave 1424—Leon Langsam
Second Ave 1629—A Guberman
Second Ave 1828—Zoltan Hartmann Elec Co
Second Ave 1838—P Stein
Third Ave 1011—J M Kohlmeir
Third Ave 1132—Plaza Elec Co
Third Ave 1165—Jas Gear
Third Ave 1195—Harry Goldman
Third Ave 1286—F & B Electrical Co
Third Ave 1298—J Rappaport
Third Ave 1311—Bloch Hardware Co
Third Ave 1373—H Goldberg
Third Ave 1397—C J Eichman
Third Ave 1403—Royal Inc Sup Co Inc
Third Ave 1410—Yorkville Elec Sup Co
Third Ave 1494—Philip Becker
Third Ave 1545—N W Altman Co.
Third Ave 1573—B Wankel & Son
Third Ave 1636—Benjamin Phillips
Third Ave 1912—H Rose
Third Ave 1971—Nathan Louis

One Hundred and Twenty-fifth Street District

Amsterdam Ave & 72nd St—Acker Merrall & Condit Company
Amsterdam Ave 107—H L Berwitz
Amsterdam Ave 152—C A Bruhns
Amsterdam Ave 206—Automotive Elec Serv Corporation
Amsterdam Ave 326—I H Simpson Hdware Co
Amsterdam Ave 390—J F Elec Co
Amsterdam Ave 409—Louis Gonsky
Amsterdam Ave 451—L H Nurick
Amsterdam Ave 484—Acker Merrall & Condit Company
Amsterdam Ave 493—J S Dickinson
Amsterdam Ave 511—Frank Hoffman
Amsterdam Ave 540—Colonial Supply Co
Amsterdam Ave 589—David Gold
Amsterdam Ave 689—J C Mortimer
Amsterdam Ave 716—A VerEecke
Amsterdam Ave 727—Fred Kissel
Amsterdam Ave 751—Abraham Wagner
Amsterdam Ave 767—Frank Hanken
Amsterdam Ave 788—Louis Mantel
Amsterdam Ave 821—N Saphier
Amsterdam Ave 849— LHoffman
Amsterdam Ave 868—Sacks & Blum
Amsterdam Ave 913—L F Schulman
Amsterdam Ave 935—M Connolly
Amsterdam Ave 943—P T Dunn
Amsterdam Ave 976—Morningside Supply Shop
Amsterdam Ave 969—Markle Hardware Co
Amsterdam Ave 989—Marcus & Klein
Amsterdam Ave 1084—Samuel Garnter
Amsterdam Ave 1253—I Odence
Amsterdam Ave 1262—Max Glick
Amsterdam Ave 1289—Dinsen & Co
Amsterdam Ave 1434—J Feldman
Amsterdam Ave 1632—Edward T O'Neill
Amsterdam Ave 1710—Thos Gilmartin
Amsterdam Ave 1762—James M Adler
Amsterdam Ave 1814—Louis Flato
Amsterdam Ave 1955—Ginsberg Bros
Amsterdom Ave 1975—Mishkin & Ferber
Amsterdam Ave 2141—Julius Kramer
Amsterdam Ave 2153—D Popkin
Amsterdam Ave 2232—Samuel Greenberg
Amsterdam Ave 2266—John A Dunn
Amsterdam Ave 2328—Sidney Fichtman
Broadway & 102nd St—Acker Merrall & Condit Company
Broadway & 113th St—Acker Merrall & Condit Company
Broadway 1904—Witherbee Storage Battery Co
Broadway 1932—Economical Tire & Sup Co
Broadway 1939—Bull Du Roy Elec Co
Broadway 1987—King Tire Co
Broadway 2128—Modern Ltg Co
Broadway 2146—H H Greenberger
Broadway 2157—H Saletan
Broadway 2230—Weaver Ebling Co
Broadway 2247—Schlesinger & Co
Broadway 2314—McCabe & Widmayer
Broadway 2323—Wasself Pharmacy
Broadway 2337—American Elec Cons Co
Broadway 2343—Howard S Beidleman
Broadway and 87th St—Park & Tilford
Broadway and 101st St—Park & Tilford
Broadway and 112th St—Park & Tilford
Broadway 2415—E G Zelner
Broadway 2477½—Acker Merrall & Condit Co
Broadway 2490—J F Delahant Elec Sales Corp
Broadway 2590—N Gartenberg

Authorized Mazda Lamp Agents (Continued)

Broadway 2621—John E Thomas
Broadway 2642—Isaac Sacks
Broadway 2721—John E Thomas
Broadway 2787—Broadway Elec Shop
Broadway 2869—Sam Ferber
Broadway 2875—I Gaynor
Broadway 2881—Louis Wasself
Broadway 2911—Julius Gray
Broadway 3153—Leon Gilbson
Broadway 3499—Citron Bros
Broadway 3633—Citron Bros
Broadway 3766—A D Ritterhof & Co
Broadway 3817—Citron Bros
Broadway 3850—Samuels & Rose
Broadway 3906—M Lewis Inc
Columbus Ave 26—Esser & Kutzman
Columbus Ave 26—Magneto Elec Generator Co
Columbus Ave 81—Andrew J Davis Jr
Columbus Ave 144—E May Inc
Columbus Ave 189—Budnick Bros
Columbus Ave 196—Columbus Elec Co
Columbus Ave and 72d St—Park & Tilford
Columbus Ave 220—T F Carr
Columbus Ave 283—M Appel
Columbus Ave 294—P F Gilmartin
Columbus Ave 327—M Blumberg
Columbus Ave 343—S S Grossberg
Columbus Ave 348—H Flower
Columbus Ave 505—W J Keogh
Columbus Ave 517—Sam Millinger
Columbus Ave 522—C M O'Connor
Columbus Ave 556—Chas Brunner
Columbus Ave 560—R D Langley
Columbus Ave 590—Alexander C Paterson & Son
Columbus Ave 649—Ernest Craske
Columbus Ave 706—Wm G Quick
Columbus Ave 730—Benj Baum
Columbus Ave 812—B S Peyser
Columbus Ave 852—M L Richman
Columbus Ave 868—A Abrons
Columbus Ave 900—Gossler Bros
Columbus Ave 925—Amsterdam Elec Supply Co
Columbus Ave 942—L Green
Columbus Ave 1008—LeMar Supply Store
East 110th St 165—William Eisner
East 112th St 173—Behl Electric Co
East 116th St 6—Harlem Elec Co
East 116th St 12—J Alpert
East 116th St 85—Prompt Elec Ser Co
East 116th St 204—Empire Gas & Elec Fix Co
East 118th St 309—S W Hurowitz
East 120th St 165—Stein Mfg Co
East 125th St 163—F J Rush
Eighth Ave 2073—Phil Epstein
Eighth Ave 2137—I Sussman
Eighth Ave 2187—L S Metzger
Eighth Ave 2245—E Lederer & Co
Eighth Ave 2318—F J Brueser & Co
Eighth Ave 2441—A E Jackson
Eighth Ave 2662—D Enzelson
Eighth Ave 2697—Morris Kahn
Eighth Ave 2704—Lazar Schein
Eighth Ave 2752—E Kramer
Fifth Ave 1410—S J Eisner
Fifth Ave 2036—Frederick Klein
First Ave 2335—Anthony Guida
Hancock Place 3—Progressive Electric Co
Lenox Ave & 110th St—Central Park View Garage
Lenox Ave 22—Morris Perla
Lenox Ave 151—L Hershowitz
Lenox Ave 153—Mazda Electric Co
Lenox Ave and 126th St—Park & Tilford
Lenox Ave 346—Herman Young
Lenox Ave 394—S. Lichtenstein
Lenox Ave 403—Lenox Elec Co
Lenox Ave 468—Frank & Meyers
Lenox Ave 523—J Soffen
Lenox Ave 603—Herman Pinkiert
Lenox Ave 624—P J Gold
Lexington Ave 1855—K & H Co
Lexington Ave 1878—George Woehrle & Son
Lexington Ave 1907—Albert Ascher
Madison Ave 1745—Louis Schlesinger
Madison Ave 1806—Madison Elec Co
Madison Ave 1935—J Schmideberg
Manhattan St 5—Ben Rosenblatt
Manhattan St 34—Philip Glick
Manhattan St 52—Manhattan Elec Fixt Shop
Manhattan St 69—Weil Bros
Morningside Drive 76—Morningside Elec Co
Park Ave 1630—Wimple Elec Co
Park Ave 1755—C V Gedroice & Co
Park Ave 1889—Gristede Bros Inc
Park Ave 1980—S Mayer
Second Ave 2236—A Freeman
Seventh Ave & 125th St—Acker Merrall & Condit Co
Seventh Ave 2286—Nathan Zolinsky
St Nicholas Ave 169—J & S Elec Co
Third Ave 2098—Iron Spec Co
Third Ave 2257—Alex Koudelman
Third Ave 2327—Nedelman Schoenfeld Co
Third Ave 2352—Chas Mann & Co
Third Ave 2739—Special Universal Motor Co
West End Ave 165—F W Astarita
West 66th St 161—Leo Strus
West 70th St 104—Samuel Moses
West 72nd St 176—Kaufman & Burkert
West 83rd St 121—C J Christesen
West 83d St 220—Gertler Elec Co
West 99th St 237—I Davis
West 116th St 138—P Simpson Inc
West 116th St 239—Albert Elec Co
West 125th St 41—Hygrade Elec Novelty Co
West 125th St 127—Manhattan Elec Supply Co
West 125th St 133—Briggs Hardware Co
West 125th St 215—M J Heller Elec Co
West 126th St 301—M F Petters
West 135th St 107—C M Moten
West 135th St 493—Dominger Engineering Co

Bronx (Melrose District)

Boston Road 1168—N Goldman
Boston Road 1304—Mayo Lighting Fixture Co
Boston Road 1721—S Langer
Brook Ave 172—S Dworkin
Brook Ave 250—Loewe & Friedman
Burnside Ave 4—F B Electric Co
Courtlandt Ave 554—Courtlandt Elec Cont Co
Courtlandt Ave 1185—Fleishmann Elec Lp Co
East 138th St 349—Wm A Schley
East 138th St 356—Edwin L Ross
East 138th St 379—George W Schirmer
East 138th St 521—A Friedman
East 142nd St 781—Wilson Maeulen Co
East 149th St 358—Weber Supply Co
East 149th St 358—Non Pareil Gas & Electric Fixture Co
East 149th St 432—Wm Wilkening
East 149th St 448—A Dessner
East 152nd St 739—Gustav Abramowitz
East 152nd St 835—J Lowe
East 152nd St 926—Joseph B Josephson
East 153rd St 404—Joseph Mancusi
East 156th St 878—Herbert C Davis
East 160th St 770—Jacob Garten
East 160th St 816—Pellar & Gates
East 161st St 615—J F Smith
East 162nd St 860—Unit Elec Co
East 163rd St 736—Sayles Electric Co Inc
East 163rd St 950—Max Maged
East 163d St 965—Kaufman Brothers
East 163rd St 1029—Globe Elec Lamp Co

Authorized Mazda Lamp Agents (Concluded)

East 163rd St 1032—M Finklestein
East 167th St 460—M Schwarzler
East 169th St 535—B Weiss Electric Co
East 169th St 638—Max Berminer
East 169th St 936—Mathew Sussman
East 177th St 1753—C H Wallace
East 180th St 708—C J Segaitz
Freeman St 860—Sidney Cannold
Freeman St 879—D Hass & M Posman
Intervale Ave 882—Topal & Son
Intervale Ave 935—Phyllis Elec Corp
Intervale Ave 946—Samuel Berman
Jackson Ave 1046—Joseph Edelmuth
Longwood Ave 932—Link's Hardware Store Inc
Longwood Ave 972—Adolph Greenblat
Prospect Ave 631—Max Fertig
Prospect Ave 902—Mahler Electric Co
Prospect Ave 1007—Beluck S Paint Sup Co
Prospect Ave 1072—Jacob Hirshman
Prospect Ave 1221—M Oguss
Shakespeare Ave 1304—James Connors
So Boulevard 1073—Sol Goldman
So Boulevard 1111—Steinberg Bros
So Boulevard 1300—A Haas
So Boulevard 1308—Louis I Waldman
So Boulevard 1327—A Dressner
So Boulevard 1348—Whitehead & Weiler
So Boulevard 1482—Wilson-Rotker & Co
St Ann's Ave 342—S Wishnevsky
Stebbins Ave 1142—Walshin Bros
Third Ave 2586—A F Eggers
Third Ave 2604—A P Dienst Co
Third Ave 2614—Bronx Hdwe & Supply Co
Third Ave 2718—A L Biltchick
Third Ave 2726—American Elec Ltg Co
Third Ave 2739—Special Universal Motor Co
Third Ave 2998—I Gurland
Third Ave 3000—Michael A Busch
Third Ave 3151—We Lektrify U Corp
Third Ave 3154—Joseph B Josephson
Third Ave 3202—A & L Supply Co
Third Ave 3295—W M Harris
Third Ave 3414—J Schapiro
Third Ave 3425—Rubenstein Brothers
Third Ave 3440—Frank Sladek
Third Ave 3808—Adolph Siegel
Union Ave 673—R J Atherly
Union Ave 767—Henry Cohen
Washington Ave 1226—Leopold Altman
Washington Ave 1738—Tremont Elec Co
Webster Ave 1139—Fleetwood Lamp Service Co
Westchester Ave 738—Max Levin
Westchester Ave 760—M Goldstein
Westchester Ave 796—Royal Elec Shops
Westchester Ave 819—Blatt Brothers
Westchester Ave 847—Arrow Elec Shops Inc
Westchester Ave 853—Ableon Elec Co
Westchester Ave 976—H Davis
Westchester Ave 1011—A Sherman & Son
Westchester Ave 1024—Acker Merrall & Condit Company
Westchester Ave 1038—J Sugarman
Westchester Ave 1049—M Aschenbrand
Westchester Ave 1058—Heitler & Dick
Westchester Square 134—D S Robinson
Wilkins Ave 1289—B Levine
Willis Ave 319—Alexander White
Willis Ave 347—George A Schellhorn
Willis Ave 508—J J Mathias

Bronx (Tremont District)

Audubon Ave 182—R Koffoff
Audubon Ave 335—Wm Ward
Boscobel Ave 1396—R E McCallister
Boston Road 1360—Joseph Leckart
Claremont Pkway 505—Claremont Elec Co
Clinton Ave 2117—Wm H Blank
Crotona Ave 1983—Boris J Medove
East Fordham Road 106—Gray's Fordham Store
East Fordham Road 273—S Cotler
East Fordham Road 337—Federal Ltg Fix Co
East Fordham Road 338—H & M Bloom
East Fordham Road 410—Triangle Elec Co
East Tremont Ave 111—L Karowsky & P Farbman
East Tremont Ave 504—Iseman & Colitto
East Tremont Ave 575—Nonpareil Gas & Elec Co
East Tremont Ave 755—Becker Bros
East Tremont Ave 800—Levin Brothers
East 180th St 350—Philip Klein
East 180th St 746—B Follman
East 180th St 758—M Krendel
East 183rd St 68—Ace Electrical Co
East 183rd St 545—Fred J Gil
East 184th St 531—George Kuhn
East 201st St 261—Leonard B Fox
East 233rd St 343—Joseph Reda
Jerome Ave 2026—Monroe Elec Co
Jerome Ave 2355—Lewis H Woods Inc
Jerome Ave 2375—Mills & Svenson
Jerome Ave 2376—W W Electrical Co
Jerome Ave 2423—J Wollak
Kelly St 1015—Bronx Gas & Elec Shop
Kelly St 1015—G & M Electric Co
Morris Park Ave 685—M W Smith
Morris Park Ave 706—G Kuebler & Son
Park Ave 4144—Carmelo Silvestio
Park Ave 4190—Ralph M Jones
Park Ave 4206—Hugh J Casey
So Boulevard 1881—Louis Flatau
So Boulevard 1941—Abraham Herman
Thieriot Ave 1269—Thieriot Radio & Elec Co
Third Ave 3759—Max Shapiro
Third Ave 3876—D Steele
Third Ave 4197—Adolf Birnbaum
Third Ave 4239—Northern Gas & Elec Fix Co
Third Ave 4547—David Klarman
Tremont Ave 421—Acker Merrall & Condit Co
Tremont Ave 478—Mutual Gas & Elec Co
Tremont Ave 866—Schneideman & Hammerschlag
University Ave 2370—Ernest A Boetzel
Webster Ave 2555—Ben Murdrick
Webster Ave 2601—Eli Ancowitz
Webster Ave 2643—Rudd Bros
Webster Ave 2697—U S Pharmacy
Webster Ave 2787—Fordham Elec Supply Co
Webster Ave 2839—Leo Lewis Inc
Webster Ave 2849—J L Baeder
West 181st St 553—George Hunter
West 231st St 165—Louis Grossman
West Fordham Road 45—Edward W Dunn

The New York Edison Company sells lamps to its customers from its showrooms at the following addresses for cash, or will deliver lamps on order:

Broadway Office—424 Broadway
Norfolk Street Office—20 Norfolk St
Irving Place Office—10 Irving Place
Forty-second Street Office—124 West 42d St
Eighty-sixth Street Office—151 East 86th St
One Hundred and Twenty-fifth Street Office—15 East 125th St
Bronx (Melrose Office)—362 East 149th St
Bronx (Tremont Office)—Tremont and Monterey Aves

September 1920

Castle Garden 1822

VOLUME 12 NUMBER 9

CONTENTS

The Edison Monthly

	Page
The Edison Directory, An Announcement	Inside Front Cover
Editorial	258
The Bronx Company	259
Fisk Rubber Company (Building Photo)	262
Liggett, Winchester, Ley Co. (Building Photo)	263
"Electric Fire"	264
In Express Service	267
Toast (Verse)	270
Table Cookery	271
Edison District Offices with Map	Inside Back Cover

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F BRADY, President
WALTER NEUMULLER, Secretary
FREDERICK SMITH, Treasurer

That the American Railway Express Company plans ultimately to substitute motor trucks for all horse-drawn vehicles is not a surprising statement to one who has watched the rapid increase of automobiles in the service of the various express companies. Mr E E La Schum, General Superintendent of Motor Vehicle Equipment of the consolidated express companies, predicts the complete motorization of the express business and he amplifies his statement with the declaration that the major percentage of the trucks will be electrics.

There are already more than twelve hundred electrics in the service of the American Railway Express. They represent the combined fleets of the several express companies which were united by the government as a war measure. Their history dates back to the early days of the storage-battery vehicle and some of the present trucks have records of thirteen years' service.

In the express business the work is never done. Yet contradictory as it may sound the day's work must be cleaned up each night. Let a day's shipments accumulate, as sometimes happens during the vacation season, and a task of mountainous proportions looms up. Such work demands the utmost in reliability and efficiency and to a certain extent economy. That these requirements are found in the electric is seen in the determination of the express companies to motorize their fleets as soon as it can be done.

Rather naive is the declaration of Ebenezer Kinnersley that electricity "is an extremely subtile fluid" and that "it doth not take up any perceptible time in passing through large Portions of Space."

Yet one hundred and sixty years ago, when Kinnersley was entertaining the curious with his experiments with "electric fire," these were some of the characteristics of the then little known element which he used to arouse public interest. The forerunner of the present day industrial magnet was another feature of the experiments, Kinnersley describing the experiment as "A Leaf of the Most weighty of Metals suspended in the Air, as is said of Mahomet's Tomb." Electric welding had a part in this unusual program, for in Lecture II, Demonstration X, we find "Metal melted by it (though without any Heat) in less than the Thousandth Part of a Minute."

The Kinnersley lectures were given in 1753 and were attended by great throngs. People paid $2.30 each for the privilege of seeing the demonstrations. The record of the lectures has come to us in the form of one of the old circulars (in itself a curious bit of advertising) now in the Library of Congress and reprinted elsewhere in this issue of The Edison Monthly.

The Bronx Company

IT is of more than passing interest to note how a chain or sequence of events, particularly relative to the building up of an industry, eventually reaches its climax in the adoption of Central Station Service as a source of electrical supply. Due to the extraordinary demands which it made upon industry, the war, in practically every instance, marks the first point of the series in every industry involved. A typical example of an industry thus brought to a high point of efficiency and the use of Central Station Service, is that of dyeing. There are many dyeing establishments in New York and one of the largest is that of the Bronx Company at Tremont Avenue and 177th Street.

No longer can Germany boast of her position in the production of dyes, boasts unfortunately well founded and which were the despair of the American chemists. But now because of discoveries made by scientists working with the United States Department of Agriculture, American manufacturers are able to produce certain chemicals necessary for the making of dyes which before the war were made only in Germany and Austria, and which brought very high prices due to the expensive method of German manufacture.

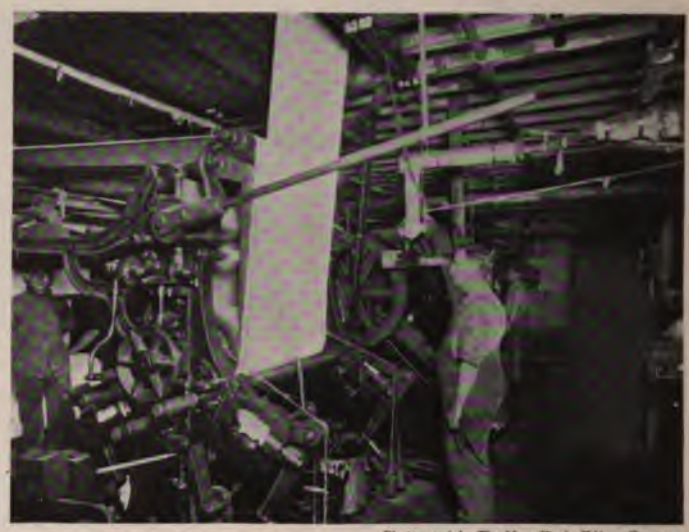
The process of manufacture discovered here places America in direct competition with Germany and makes it possible in many instances even to undersell that which has always been the greatest dye producing nation of the world. All of which, we must admit, closely approaches an ideal condition in what will doubtlessly be one of the great industries of the nation.

A nation at war makes such demands upon her various indus-

Photograph by The New York Edison Company

The Bronx Company Plant at 177th Street and Tremont Avenue Is One of the Largest Dyeing Establishments in the Country

tries as are never made in times of peace, while to assist in the carrying out of these demands she offers the specialized aid of her governmental departments. The dyeing industry was confronted with the task of turning out hundreds of thousands of yards of khaki and other dyed materials for war use. This coupled with the realization of the nation's comparative lack of knowledge concerning the manufacture of dyes, caused the Department of Agriculture to bend all its efforts to the discovery of dye secrets.



Photograph by The New York Edison Company

Printing the Design for Fancy Material Is Somewhat Similar to Printing the Colored Sections of a Sunday Paper

With the discovery of the products with which to manufacture dyes of as excellent a quality as those which up to that time the nation had had to import, came also the perfecting of the machinery used in the dyeing process.

The Bronx Company, one of the largest and oldest dyeing establishments in the business, foreseeing the demands which eventually were made upon it, decided to discard a portion of its big steam plant and in its place to install Central Station Service. The first installation was made in 1917. In 1918 a fifty kilowatt steam-driven generator was discontinued and the additional load connected to the Edison circuits. Central Station Service was found to be so reliable and steady, qualities particularly necessary for the successful operation of dyeing machinery, that a final connection was made which shut down the remaining eighteen steam engines.

Thus in one establishment were utilized the results of the experiments conducted by the government in the form of dye, the most perfect machinery inventive genius could devise, and finally a steady and uninterrupted flow of electrical energy supplied through Central Station Service. These were the three primary factors which worked to clothe the greatest army that the greatest nation had ever been required to put in the field.

Though the war is over there is still a large enough demand for khaki to keep the Bronx Company's establishment working at high speed turning out a sufficient quantity of this material. The difference between heavy cotton cloth and khaki is, to a great extent, in the dyeing process that follows shortly after the unsized material has been run through a number of wringers. The seemingly

endless band of cloth is run over a series of rollers into as many tanks of dye as are necessary to give the material the desired shade.

The cloth after dyeing is run over big hollow cylinders through which live steam is forced, and by the time the material has reached the final revolution, it is thoroughly dried and ready to be put through an electric machine by which it is cut into the prescribed lengths.

Some conception of the size of the plant of the Bronx Company may be formed when it is realized that it comprises about twenty-six buildings arranged in the general shape of a big U; the building containing the electrical apparatus, being placed in the middle of the central opening. There are approximately one and one quarter million square feet of floor space.

Besides its great output of khaki which is handled in one of the wings of the plant, the Bronx Company turns out thousands of yards of other dyed, printed, and mercerized materials. In the printing work especially, where seven or eight colors may be applied to designs for curtain material or dress goods, great care must be taken that the machine is run at just the right speed so that the rollers on which the design is engraved shall pick up the dye in sufficient quantity and transfer it evenly to the material.

The absence of smoke and dirt, the steady and even manner in which it operates all types of industrial machinery and finally the reliability of Central Station Service makes electricity the ideal motive power for dyeing and all other manufacturing purposes.

Photograph by The New York Edison Company

Dyeing Khaki Cloth. The Material Goes Through a Succession of Tanks Until the Desired Shade Is Attained

Carrere & Hastings, Architects

The Huge Building of the Fisk Rubber Company at Broadway and Fifty-Seventh Street, with an Electrical Installation of 6,000 Lamps and 500 Horsepower in Motors Will Be Supplied by The New York Edison Company

Carrere & Hastings Architects

The Liggett, Winchester, Ley Building at Madison Avenue and Forty-second Street Will Have an Electrical Installation of 8,000 Lamps and 500 Horsepower. As Is the Case With Almost Every Building Now Being Erected, the Plans Call for Current Supplied by The New York Edison Company

"Electric Fire"

THERE is in the Library of Congress at Washington, D C, an old, faded, and worn piece of paper containing the announcement of two lectures on "Electric Fire" to be given by one Ebenezer Kinnersley. The notice was printed at St Johns, Antigua, West Indies, and bears the date of April 25, 1753. Kinnersley's lectures were in the form of a series of experiments, with explanations, showing the marvels of electricity, at that time a new and wonderful discovery.

In 1746 Benjamin Franklin had visited Boston where he had an opportunity to witness many unusual experiments with "Electric Fire." He was so impressed by them that on his return to Philadelphia he repeated them for himself and originated others. His friends became intensely interested in watching him and he found that he was devoting so much of his time to this new entertainment that he was forced to enlist the interest of Ebenezer Kinnersley, his neighbor. Kinnersley learned how to perform the experiments and then decided to go on the road. This he did and Franklin tells us in his Autobiography that he "procured an elegant apparatus for the purpose in which all the little machinery that I had roughly prepared for myself were nicely formed by instrument makers." Franklin wrote the lectures which he says were prepared to harmonize with the experiments which "were ranged in such order and accompanied with such explanations in such method as that the foregoing should assist in comprehending the following."

Thus equipped, Kinnersley, in 1751, went to Boston with a letter of introduction from Franklin to Dr Bowdoin for the purpose of enlisting his endorsement. This was effected, and when Kinnersley started on his lecture tour he had become so skillful in performing the experiments and originating new ones that Franklin generously gave him credit for being the first to "apply electricity in the ringing of chimes and in the moving of light-made orreries and the first to discover the fact that electric fire passes through water." Kinnersley visited many towns in the Colonies and finally went to the West Indies. Here he experienced some difficulty in performing his experiments on account of the moisture in the atmosphere.

Forerunner of Present Day Industrial Applications

Many of the experiments given by Kinnersley, at that time wonderful, are now seen in practical applications every day and can be readily recognized. As indicating how marvelous this new discovery was considered, and interesting as a prophecy of the future development of the new found "electric fire," this document which was recently found among the papers of William Thornton, who was associated with the designing of the Nation's Capitol, is enlightening and well worth studying. It is reproduced on the following pages as nearly as possible like the original, both as to spelling and mechanical arrangement. The poster is about eight by sixteen inches in size.

St. Johns, April 25, 1753

FOR THE ENTERTAINMENT OF THE CURIOUS

There is Now to be Exhibited
at the House of Messrs. Alleyn and Williams, in Newgate-Street,
and to be continued for several weeks;

A COURSE OF EXPERIMENTS

On the nearly-discovered

ELECTRIC FIRE

CONTAINING, not only the most curious of those that have been made and published in Europe, but a considerable Number of new Ones lately made in Philadelphia to be accompanied with methodical LECTURES on the Nature and Properties of that wonderful Element.

By EBENEZER KINNERSLEY

LECTURE I

I. Of Electricity in General, giving some Account of the Discovery of it.

II. That the Electric Fire is a real Element, and different from those heretofore known and named, and collected out of other Matter (not created) by the Friction of Glass, etc.

III. That it is an extremely subtile Fluid.

IV. That it doth not take up any perceptible Time in passing through large Portions of Space.

V. That it is intimately mixed with the Substance of all the other Fluids and Solids of the Globe we live on.

VI. That our Bodies at all Times contain enough of it to set a House on Fire.

VII. That though it will fire inflammable Matters, itself has no sensible Heat.

VIII. That it differs from common Matter in this: Its Parts do not mutually attract, but mutally repel each other.

IX. That it is strongly attracted by all other Matter.

X. An artificial Spider, animated by the Electric Fire, so as to act like a live One.

XI. A Shower of Sand which rises again as fast as it falls.

XII. That common Matter in the Form of Points attracts this Fire more strongly than in any other Form.

XIII. A Leaf of the Most weighty of Metals suspended in the Air, as is said of Mahomet's Tomb.

XIV. An Appearance like Fishes swimming in the Air.

XV. That this Fire will live in Water, a River not being sufficient to quench the smallest Spark of it.

XVI. A Representation of the Sensitive Plant.

XVII. A Representation of the seven Planets, showing a probable Cause of their keeping their due distances from each other, and from the Sun in the Center.

XVIII. The Salute repulsed by the Laddie's Fire; or, Fire darting from a Lady's lips, so that she may defy any Person to salute her.

XIX. Eight musical Bells rung by an electrified Phial of Water.

XX. A Battery of eleven Guns discharged by Fire issuing out of a Person's Finger.

LECTURE II

I. A Description and Explanation of Mr. Muschenbrock's Wonderful Bottle.

II. The amazing Force of Electric Fire in passing through a Number of Bodies at the same Instant.

III. An Electric Mine sprung.

IV. Electrified Money which scarce anybody will take when offered to them.

V. A Piece of Money drawn out of a Person's mouth in spite of his Teeth; yet without touching the Money or the Person.

VI. Spirits kindled by Fire darting from a Lady's Eyes (without a Metaphor).

VII. The Electric Fire shown to be the same with Lightning.

VIII. A bright Flash of real Lightning darting from a Cloud in a painted Thunder-Storm.

IX. The Force of a small Quantity of it makes a fair Hole through a Quire of Paper.

X. Metal melted by it (though without any Heat) in less than the Thousandth Part of a Minute.

XI. Animals killed by it instantaneously.

XII. Air issuing out of a Bladder set on Fire by a Spark from a Person's Finger, and burning like a Volcano.

XIII. A few Drops of cold Water impregnated with Lightning, and let fall on a Person's Hand, supplying him with Fire sufficient to kindle a burning Flame with one of the Finger's of his other Hand.

XIV. A sulphureous Vapor kindled into Flame by Lightning issuing out of a cold Apple, a Lime or an Orange.

XV. The Cause and Effects of Lightning explained by a more probable Hypothesis than has hitherto appeared.

XVI. An Experiment showing why Clouds charged with Lightning, fly nearer the Earth than other Clouds; and why Eminences are most frequently struck by Lightning.

XVII. Another Flash of Lightning from the painted Thunder-Storm.

XVIII. An Experiment showing how Lightning, when it strikes a House or Ship, etc., may be conducted to the Earth, or Water, without doing the least Damage.

XIX. A Flash of Lightning made to strike a small House, and dart toward a little Lady sitting on a Chair, who will, notwithstanding, be preserved from being hurt; whilst the Image of a Negro standing by, and seeming to be further out of Danger, will be remarkably affected by it.

XX. An Experiment showing how to preserve Houses, Ships, etc., from being ever struck by Lightning.

XXI. The endeavoring to guard against Lightning, shown to be not chargeable with Presumption, nor inconsistent with any of the Principles either of natural or revealed Religion.

XXII. A Wheel of a curious Machine turned round by Lightning, and playing Variety of Tunes on eight musical Bells.

XXIII. A Battery of eleven Guns discharged by Lightning, after it has darted through ten Foot of Water.

As the Knowledge of Nature tends to enlarge the human Mind, and give us more Noble, more Grand and exhalted Ideas of the AUTHOR of Nature, and if well pursued, seldom fails producing something useful to Man, 'tis hop'd these Lectures may be thought worthy of Regard and Encouragement.

TICKETS to be had at Mr JOHN LINDSAY'S at the Printing-Office, and of Mr KINNERSLEY, from 10 to 12 o'Clock, at the Room where the Experiments are to be exhibited.—PRICE a Chequin ($2.30) for each LECTURE. The first Lecture to be on Mondays, Wednesdays, and Fridays; the Second Lecture, on Tuesdays, Thursdays, and Saturdays, beginning precisely at 3 o'Clock in the Afternoon, provided the Weather be suitable, and Tickets enough sold to make up a sufficient Company.—As the best Season for exhibiting these Experiments is almost over, and Mr Kinnersley's Stay here is intended to be very short; those Gentlemen and Ladies who design to be Spectators of these Entertaining and ASTONISHING WONDERS of Nature, are desired to be expeditious, or they will certainly be disappointed.— It may, perhaps, be quite equal to some Persons which Lecture they begin with; BUT the Experiments of the Second Lecture may be much better understood by those who have well attended to the Experiments of the First, the One being a proper Introduction to the Other.—NOTE, The Experiments succeed best in fair dry Weather.

In Express Service

ARTICLES of baggage, neatly piled boxes, countless trunks of every size and description, and innumerable heavy packing cases crowd each other for space at the freight depots of the American Railway Express Company. A tremendous task is being rapidly and adequately handled by an organization whose calibre must necessarily be more than above the average in order to be able to cope successfully with such problems. A short trip to the seashore or the moving of household effects from coast to coast are made equally possible largely because of the service rendered by this greatest of express companies. From the very nature of the enterprise lack of dependability at any point in the delivery system of the American Railway Express Company would be both far reaching and paralyzing in its effect. Because of this the utmost attention and care are devoted to the selection of vehicles for the work. Initial cost, expense of operation, dependability, efficiency and sturdiness, are all thoroughly gone into before the purchase of any motor equipment. In view of this it is of more than passing interest to observe how large a part of the work is handled by electric trucks.

Electric trucks were first used by the old American Express Company in 1907 when several were installed in the larger cities. The other express companies were also using electric vehicles at about this time and, when as a war measure, the several organizations were consolidated and the American Railway Express Company

Photograph by The New York Edison Company

Electric Trucks Occupy Less Space per Ton of Carrying Capacity Than Any Other Vehicle, a Fact That Makes Them Particularly Valuable in the Crowded Shipping Centres

formed, more than twelve hundred electric trucks brought together in the express service of the country. Of this number three hundred and sixty are employed in the New York area alone, there being two hundred and ninety-six commercial vehicles and sixty-four industrials. In such a field, particularly in the congested districts where many stops and starts are necessary, the electric truck has shown itself to be superior to all other types of vehicle, although the company uses gasoline cars for long distance haulage and wherever the greater cost is warranted by the increased mileage.

One of the great advantages of electrics for work at loading platforms is the fact that they occupy less space than either horses and wagons or gasoline motor cars of similar carrying capacity. Added to this is the ease with which they can be manoeuvered in limited space. Mileage costs have been reduced to a minimum since the introduction of electrics, it being found that for trucks of the two, three, and three and a half ton size, exclusive of drivers wage and insurance, the average cost is about seventeen cents per mile.

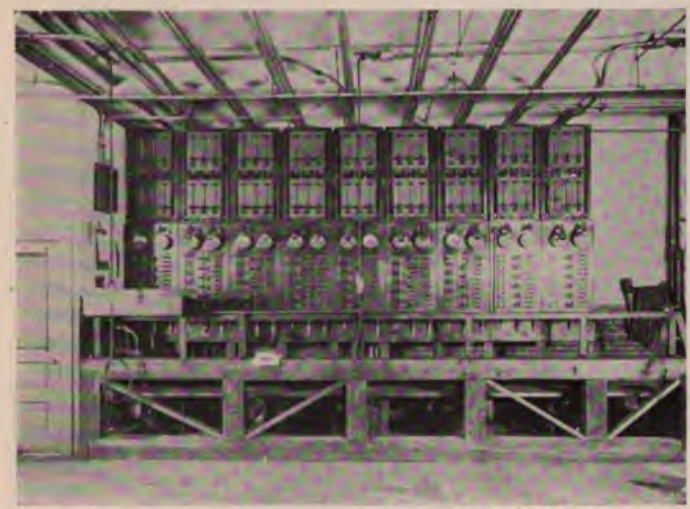
Besides handling merchandise in conjunction with railroads the company includes shipping in its list of activities and once more electrics play their part handling heavy freight shipments at the various piers. Smoothness of acceleration coupled with lack of expenditure while standing still makes the electric a most satisfactory vehicle for this type of haulage.

That electric trucks have demonstrated their superiority is clearly evidenced by the statement of Mr E E La Schum, General Superintendent of Motor Vehicle Equipment, that "about eighty-five per cent of all the gas cars now in use for city work could, and should, be profitably replaced by electrics" and that the American Railway Express Company expects "ultimately to substitute motor trucks for all horse drawn vehicles, a major percentage of which trucks will be electrics."

The immense garage of the company, located at 219 East 42nd Street, not only houses trucks but is the home of a battery charging and repair plant which is perhaps the most complete in the city. Three charging boards with two hundred and fifty-two outlets are in instant readiness on the floors devoted to garaging. The main

Photograph by The New York Edison Company

The American Railway Express Operates 1,258 Electrics in Various Cities



Photograph by the New York Edison Company

One of the Charging Boards in the Garage on East 42nd Street

board has one hundred and two outlets, and conduits carry the charging circuits to every part of the floor. By this arrangement no space is wasted, and the batteries can be recharged without moving the truck. Each charging board has an experienced operator who gives the battery his personal supervision. In this manner the batteries receive the care which develops their working capacity and prolongs their life.

A breakdown service is also maintained, but calls for help from electric trucks are less than one per cent each twenty-four hours, while even when such calls occur, because of the efficiency of the repair department, the least possible time is lost before the truck is again in service. Interchangeability of parts and standardized battery boxes aid greatly in keeping the vehicles at a maximum degree of service.

It has been conclusively shown that electrics in this service are capable of a sixty to eighty per cent overload without undue strain or damage of any kind. Out of a total of two hundred and twelve electric trucks kept at the main garage of the American Railway Express Company in the metropolitan district, an average of two hundred and six are on the streets every day, a circumstance which speaks volumes for the efficiency of the vehicles.

The work in which electric trucks are used by the American Railway Express Company may be classified as being first, to and from piers; second, delivery service; third, collection service and last, industrial service. In addition to these general classes of service two of the trucks are styled "money wagons," and are used for carrying jewelry and other valuables. The company possesses all makes of electric trucks and both lead and nickel batteries are used.

Having had the most unusual opportunity to study at close range the horse drawn vehicle, the gasoline, and the electric truck in their relation to the city traffic problem, and having investigated all methods of transportation over a long period, the Motor Vehicle Equipment Department of the American Railway Express Company places itself on record as fully convinced that the electric truck, is the most economical, efficient, and dependable means of urban delivery.

Toast!

Toast!
We watch you toasting there atop
that plate,
Crisping and browning to the very
heart—
You are not any more a thing apart,
Brought in from outer regions
Cold and dead—
Now you, the chief attraction at our
board
Delicious morsels for the feast afford.

Toast!
Sweet, golden dreams come true upon
that plate—
We look on life again with joyful zest.
The butter melts upon your hot,
brown breast,
Sizzling enticingly
Before our eyes—
Delectable delight, this crisp, brown
slice—
Perfection, served and eaten in a trice.

—*Rose Coleman*

Table Cookery

COOKING, cleaning, washing, ironing, and sewing by electricity are no longer innovations. The modern housekeeper usually begins with an electric iron or a toaster, and then selects one after another of the "little electric servants" which make it possible for her to systematize her work, save her energy, and devote more leisure to relaxation and to her family.

Electrical housekeeping makes a well organized, tastefully arranged home a possibility and a reality. Duties can be performed in the quickest and most efficient way with the most pleasing results by means of appliances that save time and strength. Not long after an electrical device has been installed in a home it becomes an integral part of the household and has a very important rôle to play.

For instance, take the appliances in the dining room. There is the electric toaster. Having made its first appearance on the breakfast table, bright and flawless in its shiny nickle splendor, it is used almost constantly, like a brand new toy, by nearly every member of the family. Toast in every form is made enthusiastically and eaten approvingly; dry toast, buttered toast, French toast, cinnamon toast, toasted muffins. And each slice that comes, piping hot, from the greatly admired appliance, has been browned a beautiful golden brown. Nor does the novelty wear off, but the toaster soon becomes a permanent fixture to be brought forth at each morning meal, and perhaps at luncheon or afternoon tea.

"How did we ever get along without it?" is the question that arises again and again.

One of its companions is pretty sure to be the electric percolator. While the grape fruit, and cereal that was cooked over night in the electric cooker, are being eaten, the coffee is being cooked right on the table. It is a cosy, comfortable little sound that one hears as the liquid is forced from the depths of the nickle or copper bowl of the percolator up into its crystal cap, growing a richer brown and sending out a more appetizing fragrance at each upheaval. Over the coffee grounds it falls, and seethes through them only to be hurled upward again. By the time that the toast, crisp and buttered, is ready to be passed, a delicious beverage is being drawn from the percolator.

A Whole Meal Prepared At the Table

For table use the electric grill or table stove is one of the most convenient appliances. Breakfasts, luncheons, or Sunday night suppers for small families can be cooked in the dining room. As in the case of the toaster and percolator, steps are saved, for there is no running between the kitchen and the dining room table. The beauty of these devices lies in the fact that more than one thing can be cooked at a time. The heat is regulated so that different intensities may be obtained.

Not only is one able to increase the

supply of toast from the electric toaster with a contribution from the grill if there is an unusually large demand for toast, but it is also possible to fry, boil or stew, and broil foods. Here are a few suggestions that, with the use of the electric grill, percolator or samovar, and toaster, will produce pleasing and satisfying meals.

An Electrical Breakfast

Cereal
Toast Coffee
Omelette
or
Broiled bacon and fried eggs
or
Poached eggs on toast

An Electrical Luncheon

Chipped beef, creamed
Stuffed tomatoes
Toasted English Muffins—Tea
Apple sauce and whipped cream

An Electrical Dinner

Tomato bisque
Minute steak Fried potatoes
Green peas and Mushrooms
Rolls Coffee
Chocolate pudding

Dishes may be prepared in the grill both above and below the heating element. While the eggs for breakfast are frying in the upper pan, the bacon can be broiled under the heated wire coils. Or, at the same time that eggs are being poached in the little cup-like utensils resting, for that purpose, in a pan on top of the grill, the toast will turn a tempting brown in the lower part of the appliance.

The stuffed tomatoes for luncheon should be baked in the lower pan, while in the upper one the chipped beef can be freshened by pouring boiling water over it for a minute or so, and then creamed.

While the tomato bisque is being passed favorably upon, and the mushrooms and green peas are keeping warm in a hot covered dish. Then the potatoes should be fried in a pan above the heat, and the steak broiled underneath.

A favorite supper is one of creamed chicken and waffles, or perhaps it might be for one of those "after-the-theatre" raids on the pantry. The creamy contents of an electric chafing dish steam and bubble and send forth an enticing odor as one "cook," garbed in an evening dress which is scarcely protected by the tiny apron she wears, lifts the cover and stirs vigorously with a long handled spoon. Then she turns over that implement to her less experienced companion while she attends to the electric waffle iron. When the checkered delicacies are slipped from the iron to each waiting plate they are coated with butter and a generous helping of maple syrup. And oh! what a feast it is voted to be!

Cooking by electricity is a pleasure, for it is clean, quick, easy, efficient, economical. There are many different devices, and each gives its owner a sense of pride that hitherto has not been felt. The combination of utility and taste is apparent in these little "servants" that do away with drudgery and become a necessary part in the "machinery" which runs the greatest of all American institutions.

October 1920

Old Dutch Houses on Broad Street

VOLUME 12 NUMBER 10

CONTENTS

The Edison Monthly

	Page
Editorial	274
The New Home of the Daughters of Jacob	275
Poor Croesus (Verse)	277
Cushman's Deliveries	278
Electric Vehicle Growth in New York	280
In Bondage (Verse)	281
Small Shop Signs	282
Carrère and Hastings and R H Shreve	284
Manufacturing Exhibits at the Electrical Show	284
Here and There with Macaroni	286

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Walter Neumuller, Secretary
Frederick Smith, Treasurer

That American export business in electrical goods is responsible in a very large measure for prosperity, not alone in the electrical industry but in other fields as well, is claimed by Mr M A Oudin, Vice-President of the International General Electric Company. In a recent issue of the *Electrical Review* he points out that of the $900,000,000 worth of electrical machinery manufactured here in 1919 more than 10 per cent was exported. Building this $90,000,000 worth of machinery for export created business for American manufacturers at a time when our own industries and utilities were not in a position to enlarge their plants, thus tiding over what ought to have been a lean period in the industrial world.

More than 40 per cent of our electrical exports went to Canada, Brazil, Argentina, Cuba, and other South American and North American countries. The Far East took 25 per cent, Japan, China, Australia, and India being the heaviest buyers. Not alone have electrical manufacturers enjoyed this export trade; the sale of American made electrical machinery very often leads to the sale of complementary equipment for the same plant. Thus the sale of a turbo generator very logically leads to the sale of boilers, condensers, and pumps. Similarly the sale of American motors to a mining company will lead to the sale of hoists, rails, and other accessories.

As a result of this very extensive use of American made goods it naturally follows that there is a prevalence of American engineering practices in those countries which are using the equipment.

As for the effect of this business at home on industries not directly electrical it is pointed out that in the construction of electrical machinery there is a very great demand for raw and manufactured products which come from every part of the country.

Copper comes from the northwest and southwest, lumber comes from Louisiana and Michigan, steel from the middle west and Pennsylvania, manufactured rubber goods from Ohio, glass from Pennsylvania, manufactured copper and brass from the industrial centres of the east: textiles, paper products, metal alloys, asbestos, turpentine, resin, mica, and slate are only a few of the other items which make up a long list.

The fact that this country secured this business in the past does not necessarily mean that we can sit back and be assured of the future. Indeed, if we are to meet successfully the competition of foreign manufacturers we must, according to Mr Oudin, overcome "our relative inexperience in the sphere of international politics, finance, and commerce."

The New Home of the Daughters of Jacob

ENCLOSED by a high rock and concrete wall, and towering majestically above the surrounding neighborhood, stands the huge home of the Daughters of Jacob, at Findlay Avenue and 167th Street, the Bronx. A wide driveway winds up the hill from the main entrance through grounds which are soon to be planted with trees, flowers and shrubbery. The institution, which is for aged men and women, was recently opened and is one of the most notable of the many Jewish charities.

The design of this home represents an entirely new idea in building construction. The structure is in the shape of a great rimless wheel, its eight wings radiating like spokes from the central building. Each dormitory occupies the width of a wing so that plenty of sunlight and air can be obtained. The private room sections are arranged in a somewhat similar manner, with a hallway connecting them with the central building. Not only is the building unique in design, but it marks a departure in institutional management. While in the past such buildings have favored private plants for their electrical supply, the Daughters of Jacob Home uses Edison Service exclusively. There are 2,500 lights and 100 horsepower in motors.

The building itself consists of five stories with a basement and subbasement. The home is built of fireproof material throughout. It is made principally of brick with tile and concrete floors and walls and there is not a piece of wood in the building except chairs and other furnishings. Every precaution has been taken, however, for a fire alarm system has been installed with fire alarm boxes on each floor, and fire escapes offer ready exit from all parts of the building.

A synagogue on the first floor is splendidly furnished and is equipped

Louis Allen Abramson, Architect *Photograph by the New York Edison Company*

Crowning the Hill at Findlay Avenue and 167th Street, the New Home of the Daughters of Jacob Dominates the Neighborhood

with excellent electric lighting facilities. This place of worship seats from six to seven hundred persons. The synagogue can also be used for entertainments, for a motion picture machine has been installed and a curtain placed behind the platform.

A library and reading room, where the inmates spend much of their time, is conveniently located on the first floor. Near the library are two sitting rooms,—one for men and one for women.

In addition to these accommodations, there is also on the first floor, the main dining room with facilities for serving seven hundred persons. This room is divided into two sections, one for the nurses and the other for patients. All of the tables are enamel topped and the entire equipment is of the most sanitary type that can be obtained. A large reception hall with two adjoining offices complete the layout of the first floor.

The second, third and fourth floors are given over to wards and private rooms. Each ward occupies one floor of a wing of the building and accommodates twenty-two beds. There are six of these wards on each floor as well as two wings for private rooms. These rooms are situated on both sides of a long hall which extends the length of a wing. Roof gardens and sun parlors, refreshing with their palms and ferns, utilize the roof space.

There is also on the fourth floor a dining room for those who, because of infirmities, are not able to make the trip down-stairs to the main dining hall.

The fifth floor has been equipped as a hospital, and every up-to-date convenience has been provided. An operating room, an anesthetic room, a sterilizing room, a doctor's office, and a dentistal clinic are on this floor.

Ventilation of the building is well taken care of. A special electric fan system has been installed with a "pull" fan which sucks in the fresh air and a second fan which discharges the stale air. In this way the air is kept constantly moving throughout the building.

Three kitchens, one for milk, one for meat, and one for vegetables are situated in the basement. Adjoining these kitchens there are a butcher shop, store rooms, a large refrigerator, and a dining room for employees.

The laundry, one of the most interesting and important features of the building, is equipped throughout

Photograph by The New York Edison Company

A Section of the Immaculate Dining Room

Photograph by The New York Edison Company
Windows on all Three Sides, Make the Wards Sunny and Bright, and Cheerful

with electrically operated apparatus. There are several large washing machines, wringers, irons and ironing machines. Adjoining the laundry are a linen room and a clothes sterilizer. In every dormitory there is a chute which carries soiled clothes direct to the hands of the laundrymen.

All of the baths and dressing rooms are in the basement. There are two rows of shower baths, seven showers in a row, with an elevated aisle between them. This enables the matron to walk up and down while baths are being taken and watch each patient. Rubber matting is spread on the floor of each shower to prevent slipping. Besides these showers there are baths for special hydrotherapeutic treatments.

All repair work is done right in the building, for several shops, among them a shoemaker's shop and a sewing room, are maintained. Many of the women spend their spare time in the sewing room repairing clothing and making new garments. A freight lift, connecting the first floor and the basement, and two passenger elevators complete the equipment of the building.

Three years ago, when the plans were first drawn, the Building Committee decided to install an electrical generating plant to supply light and power. Edison engineers, however, prepared a careful estimate which showed such a marked difference between private plant costs and Edison Service costs that the decision was reconsidered, and finally the Committee changed its plan and ordered Central Station Service installed.

Poor Croesus!

Old Croesus with his wond'rous wealth
  And all his world-wide fame,
Still must have found, I'm very sure,
  This life a slow old game.

Electric lights were not in style,
  There was no great White Way,
And all his money could not buy
  One trolley ride a day.

Poor Mrs. Croesus, though she owned
  The world's most wealthy spouse,
Had no electric cleaner fine
  To tidy up her house.

The Croesus kids were out of luck,
  They had no 'lectric toys;
No batteries to burst apart,
  When they were little boys.

There is more fun in being poor
  In this electric age
Than being rich in times like those
  When Croesus was the rage.

Alice Crowell Hoffman

Cushman's Deliveries

"MOTHER! Mother!" The child's voice rose in shrill delight and excitement. "I want that." One chubby dimpled hand pointed to the large plate glass show window behind which reposed a cake—but such a cake! A frosted Statue of Liberty rose majestically from an island of richly golden layers and bore aloft in her hand a torch of sugar which beckoned the eager palates of passing pedestrians. At the base of the statue dainty cookies huddled as though for protection, while around them stood rows of pies whose flaky crusts looked as though they might have tempted any Pilgrim father to break his Sabbath fast. The sight of that window whetted the appetite of rich and poor alike, but back of it all, behind the outward show of delectable morsels and sturdy loaves the organization of Cushman's Sons, Inc, labored that these things might be.

At the five great baking plants of this company white garbed cooks, their hands snowy with flour, watch and guide the machines whose whirling mechanism mixes the dough destined for hungry mouths. Others stand sentinel at the ovens from whose glowing doors the goodies emerge toasted and browned to perfection.

At this stage of the industry comes one of the most important branches of the Cushman's Sons activities: the corporation's delivery system. Twelve years ago officials of the company cast anxious eyes at their transportation cost sheet and decided that something must be done to reduce its total. At this time horses were doing all the work and much trouble, expense, and loss of time

Photograph by The New York Edison Company

Part of the Fleet of Electric Trucks Used by Cushman's Sons, Inc

Photograph by The New York Edison Company

Small Trucks for Carrying the Trays Facilitate the Loading

all horse drawn vehicles and wherever possible substitute electrics."

Just how efficient the storage battery truck is and what a large part of the work it handles, can be readily appreciated from the fact that almost all of the seventeen branch stores of the company receive their supplies via electric and are never at a loss for materials. Wholesale delivery orders are also taken care of by these cars and for this class of work the electric is unsurpassed, for the routes covered run through congested districts, are fairly short and necessitate many stops and starts. Another salient feature of the electric truck which has influenced its adoption and retention by Cushman's Sons, Inc, is its thorough cleanliness. The electric trucks, after being loaded at the main baking plants make three or four runs daily, serving a different clientele in the morning, afternoon and evening.

Supplementing the inherent efficiency and ruggedness of the vehicle itself, Cushman's Sons found it advisable to install their own garages and repair shops, and these are now operating at 59th Street, 72nd Street and at 16–18 Lawrence Street, where all details of maintenance are attended to. A specially trained man is in charge at each of these garages and because of this care the storage batteries, which are actually the "Hearts of the trucks," receive an

were experienced. After due deliberation and investigation the first of a now large fleet of electric trucks was installed. Records of performance, however, had not yet received the attention they merited, since traffic engineering was an almost unknown science, and after a year or more it seemed that the electric was about to prove a disappointment. They were taken out of service and the horses installed.

Immediately, alarming figures began again to be charged against the delivery department, and delay again made its appearance. At last the electric cars were reinstated, and from that day to this the motor vehicle fleet has been gradually augmented until now it includes ninety-nine electric trucks and delivery wagons.

The disappearance of the horse, while gradual, has been inevitable and from three hundred and seventeen the number has been reduced to one hundred and fifteen, while Mr G M Ballou, Vice-President, is authority for the statement that, "We expect eventually to do away with

attention which not only prolongs their usefulness but assures the owners of a maximum ratio between the energy stored and the working capacity developed. A unique angle of the company's garage methods is the fact that each place has its own carpenter and paint shop so that each of the delivery cars of Cushman's Sons, Inc, is always seen freshly retouched, clean and with that "just-placed-in-service" look which indicates proper handling and frequent inspection.

The mechanism of the electrics is thoroughly gone over at least once a year. Worn out parts are replaced, adjustments are made, and when the truck has passed through this overhauling process, it is again ready to face the severe service demanded of it. The cost of this yearly renewal, exclusive of painting and varnishing, seldom exceeds fifty dollars. The records kept show that it is possible for electric trucks and delivery cars to be in service two hundred and ninety-six, out of a possible three hundred, working days yearly, thus proving that electrics not only give longer service but are more economical than other trucks.

At 72nd Street on the East Side is the home of a cruller department devoted exclusively to the manufacture of those satisfying and inexpensive edibles. In order that each of the branch stores may receive its quota of crullers promptly, electrics are made use of in this department as well as the others, and have once more shown their superiority over their horse drawn and gasoline driven competitors. So conclusive has been this showing that Mr H C Woodfield, Superintendent of Garages, says that the company "Expects to have an additional one hundred electric trucks before another year has gone by." Transfer work, because of the large mileage involved which makes necessary the increased outlay, will continue to be done by gasoline trucks, but wherever they can go, electric vehicles are effecting a saving of thirty-three per cent.

Baking concerns all over New York are profiting by the experience of this company, and electric trucks are making their appearance in ever swelling numbers because they are "The right thing in the right place." What Cushman's Sons, Inc, have found true of the electric vehicle in the baking industry, is equally true of these cars in the one hundred other industries which make use of them in New York City.

Electric Vehicle Growth in New York

A remarkable increase in the use of electric trucks in New York is indicated by a survey that has just been completed by the Automobile Bureau of The New York Edison Company.

From January 1st to September 1st truck sales totaled 475 vehicles. This is an increase of 352 per cent over the number sold during the same period last year. These trucks were purchased by sixty-three different firms and are used for the hauling of almost every conceivable kind of commodity. Their combined carrying capacity is more than six hundred tons.

Of the sixty-three purchasers, twenty-one are using electrics for the first time. The remaining forty-two therefore represent repeat orders, the very highest possible endorsement of the electric vehicle.

In Bondage

Fashioned on Titan's forges,
  Spawned of the strength of Thor,
Haunting the rocky gorges
  From crag to the canyon's core;
Suckling the nipples of ages
  And drawing strange might from
    the storm,
Mocking the tempest's rages,
  You reigned in hell-fiend's form.

You, who played alone in the thunder,
  Flashing from cloud to cloud,
Blasting the skies asunder
  And stabbing gloom's darkest
    shroud;
You, whose naked rapiers glistened,
  Since ever the world began,
Duelling while aeons listened,
  Are now the slave of man!

Eugene W Roesch

Small Shop Signs

AMONG those interested in East Side development the use of electricity has long been a sign significant in every way. The later and now rapidly growing use of the electric sign itself is a still further and more emphatic indication.

One may ask, and not without good reason, why this means of advertising has not been adopted before this by a population whose interests are so largely bound up with buying and selling. The fact is that the very intensity of business in this quarter has until now, apparently, acted in a prohibitory way as far as so considerable an investment is concerned. In other words, the typical East Side business man is, must be, and will continue to be in business for himself. No clerk in the humblest establishment has aims other than the launching of an independent business at the earliest moment possible. This tendency or rather this inevitable rule has accounted for a multiplicity of small shops, many of them prosperous, to be sure, and many of them leading a precarious, if independent, existence. In the one case the out and out purchase of an electric sign has been something to ponder over. In the other it has been quite out of the question. Both have appreciated its usefulness just as they have long appreciated electric store lighting and employed it. This latter, however, has been an improvement well within reach of their weekly or monthly means.

Photograph by The New York Edison Company

This Sign Commands Attention Even on a Crowded Thoroughfare

The recent offering of a sign purchase proposition adapted to such cases has shown The New York Edison Company and the New York public the extent to which electricity is valued throughout a district where old time methods may be supposed still to survive. That is to say, the East Side shopkeeper, representing any one of the scores of businesses flourishing thereabouts, has shown himself quite as awake to modern ways of selling as the Fifth Avenue merchant.

The signs urged in the present campaign are peculiarly suited to the needs of the East Side store. While a reasonably broad frontage is met with occasionally, the customary space is quite restricted and the line of ordinary visibility, due to the hundreds

of wood and window signs within a few rods, must necessarily be low. Except on an exposed corner where a real prospect is possible, the typical sign location must therefore be near enough the walk to avoid the crowds of announcements that throng the second and third stories.

In this way the electric sign need not be large and can dispense with the great flaming letters and flasher devices in fashion in the up-town districts. Perhaps the most popular of the several types advocated for East Side use is the "glass box" measuring commonly five feet by three. Lettering to a surprising extent can be painted on the two sides in the coloring and arrangement specified by the purchaser, while a battery of high powered bulbs within the transparency projects the message as far up or down the street as the crowded view itself permits. These signs are constructed of the best materials and bound in ornamental metal.

Signs of the reflector panel sort, made familiar by the announcements over the doors of the United Cigar Stores, are also enjoying considerable popularity. In fact they may be said to be supplanting the old panel sign that contented itself with a few exposed bulbs set in a border of filigree work that surrounded the panel proper. The new reflector model holds concealed lamps at the top on either side beneath a slight projection or canopy, or perhaps arranged down the sides in reflector lined troughs. The painted letters are thus brought out with considerable brilliancy, depending somewhat upon the coloring and style of lettering selected.

Photograph by The New York Edison Company
Erected on the Corner of the Building, this Sign Can Be Seen from Both Streets

A third type at present considered and often secured by the larger stores is the electric or channel letter sign. This, as every one is aware, spells the message in large letters formed by electric lamps set each in a metal trough. A border of filigree metal work surmounted by a lighted decoration of some sort sets off the effect in conspicuous style. The addition of an electric flasher after the fashion of the big Broadway signs is also coming into popularity.

Though the sale of electric signs through this district can hardly

be said to be well under way, enough have been placed and enough has been said at the moment to show that the East Sider is thoroughly alive to what electricity means to the retail dealer. His shop in most cases is well lighted by current. His argument is the universal one, namely, that selling goods necessitates showing goods.

Photograph by The New York Edison Company

Outlined in Incandescents, This Sign Is Sure to Hold Attention

The use of an electric sign is but a further step in the same logical direction—to show goods necessitates getting the public into your shop. The new signs are doing this very thing.

Carrère and Hastings and R H Shreve

Under the photographs of the Fisk Rubber Co and the Liggett-Winchester-Ley buildings, published last month, the name of Mr R H Shreve should have been included with that of Carrère and Hastings as the architects.

Manufacturing Exhibits at The Electrical Show

A group of manufacturing exhibits has been arranged for the New York Electrical Exposition which will show the important part that electricity plays in the commerce and industry of the country. This display will cover furniture making, factory lighting, baking, laundering, motor repairing, welding, heating, machine shop equipment, refrigeration, conveyors, electric hoists and freight handling machinery, electric trucks, and factory wiring.

Some idea of the magnitude of the industrial displays may be gained from the fact that the motors required for the various machines will total more than 500 horse-power. This is greater than the entire power installation in some factories, and it calls for a special installation of electric wiring.

The heating and welding exhibits will be given by the General Electric Company. The displays here will include a japanning oven; arc welding sets, with the work being carried on in a special glass-sided booth; a rivet heating machine; oil tempering bath; and several electrically heated table devices; a high temperature heat treating furnace, vacuum furnaces. Samples of welded material will also be shown.

The machine shop display will be arranged by Messrs Patterson Gottfried and Hunter and will include a shaper, grinders, lathes and drills. A commercial type laundry will be operated by the American Ironing Machine Company. The equipment here will consist of a washing machine, suitable for hotels or hospitals, an

This Poster by Cooper Is Being Used to Advertise the New York Electrical Show

ironing machine, an extractor and drying oven. Another commercial laundry will be operated by Wallace B Hart.

Bread, cake, and rolls will be produced in an electric bake-shop fitted out by the Jaburg-Miller Company and operated by the Fleischmann Company. The equipment will consist of mixers, moulders, dividers, rounders, and ovens.

Lathes, drill pressers, and portable drills will be demonstrated by the Fairbanks Company, and in connection with the Fairbanks exhibit there will be a factory lighting display by the Western Electric Company. The relation of proper lighting to production will be shown, and charts will indicate the distribution of illumination as effected by different types of shades and reflectors. The Maintenance Company, which specializes in the supervision of elevator and motor installation, will have a shop in which its facilities for motor repairing are shown.

Furniture manufacture will be the subject of a display by the United Electric Light & Power Co, the exhibit including automatic shaping lathes, a belt sander, a veneer trimmer and rubbing and ripping machines.

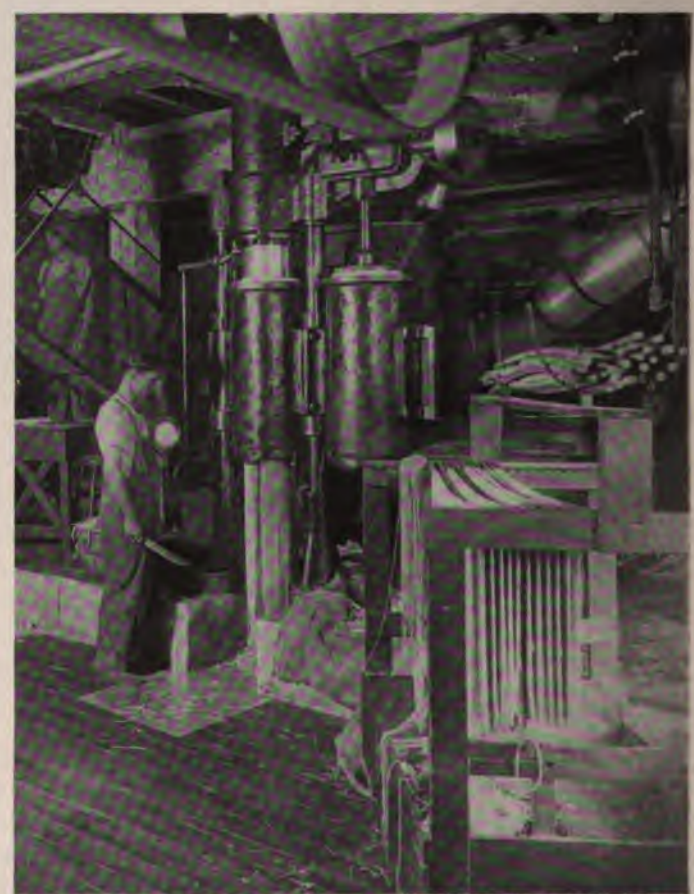
Practically all of the industrial truck manufacturers will be represented and, in addition to their formal displays on the second floor, will operate fleets of trucks on the third floor where obstructions will be placed to simulate as nearly as possible actual factory conditions. A loading platform will be installed and there will be actual loading and unloading of trucks. Material handling machinery will be exhibited by the several manufacturers and there will be a special display by the Material Handling Machinery Association. A similar exhibit will be arranged by the members of the Electric Hoist Manufacturers Association.

The wiring of factories, especially in its relation to safety, will be the subject of a display by the New York State Association of Contractors. The Westinghouse Electric and Manufacturing Company wil lshowseveral motor generator sets, a portable arc welding outfit and will also demonstrate proper factory lighting.

Here and There with Macaroni

"IT ain't so much the taste of the melon, but the eatin' of it that's so nice!" Which after all perhaps is quite true. There is something about the touch of the cool rind on one's ears that seems vastly to improve the flavor of the fruit which when eaten conventionally with a fork offers but scant enjoyment and little flavor. There are other dishes whose gustatorial attractiveness provide but a scant percentage of their full delight. Corn on the cob might be listed in the catagory as also might boiled artichokes, from whose spiked leaves—or should they be called petals?—the removal of the edible portion calls into play all of the skill and resourcefulness of the eater. But leading this list of delicacies dear to the table of the discriminating diner, stands spaghetti, supreme and undisputed in its place, the joy of the son of Naples and the despair of the uninitiated.

Who but one to the manor born can so manipulate this most elusive of foods as not to plunge himself into a state of helpless entanglement. But would you have the kernels of corn scraped from the cob, or the luscious fruit of the melon cut into dice? Spaghetti and macaroni must be long, else—well, else they are not spaghetti and macaroni! And they always have



Courtesy of Federal Macaroni Company *Photograph by The New York Edison Company*

A Macaroni Press in Operation. The Man Standing By is Ready to Cut off the Macaroni When it Reaches the Correct Length

Electric Fans Dry This Macaroni

been long too, ever since they were first juggled by the Neapolitan peasants years and years ago.

At first they were rolled by hand and, when of just the correct length and thickness, were hung outside to dry. Indeed, even now it is no uncommon sight, while passing through the most beautifully dirty and quaint little Italian villages, to see this staple article of diet gayly swinging on the clothes line in cheerful companionship with the family wash.

While its use was originally enjoyed only in Italy, macaroni is now a favorite dish in almost every part of the world. The Chinese in particular have come to show a great fondness for it, though how they manage it with chop-sticks may best, perhaps, be left to the imagination! It became so popular in England during the latter part of the eighteenth century that a group of London exquisites formed a club, calling it the Macaroni Club after their favorite dish. They wore a "fantastic costume, which included an eccentric style of hairdressing, a small hat, short coat, tight silk breeches, and a tasseled stick!"

As there is an art in eating spaghetti, so is there an art in cooking it. Both require practice if perfection is to be attained. Reams might be written of just what consistency it should be before removal from the boiling water and then again of how it should be removed to avoid succumbing to its astonishing slipperiness.

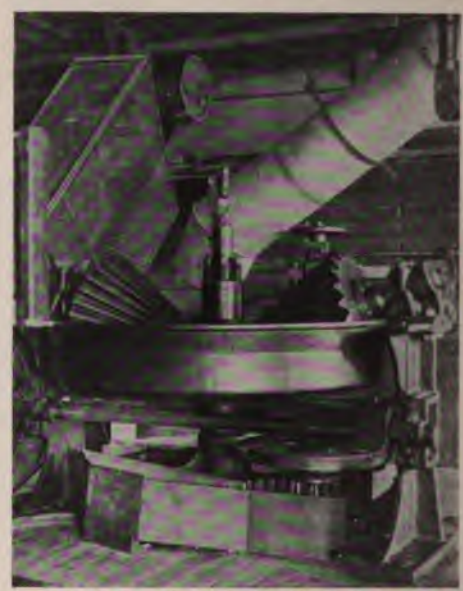
The manufacture of this interesting food, appearances to the contrary notwithstanding, is quite simple. For while the old-fashioned method, as has been told, was to roll it by hand and then hang it on the line, science and invention have perfected methods of production which turn out the delicious threads, tubes, and ribbons, with remarkable ease and in such quantity as would seem to betoken an insatiable appetite on the part of the whole world for these originally essentially Italian paste products. Companies manufacturing these products in New York City, make literally thousands upon thousands of yards of macaroni a day. In the manufacturing process only three machines are used—the mixer, the kneader and the press. The flour is poured into the electrically driven mixing machines, water is added—so much per sack of flour—and the current is turned on. When the dough is of the proper consistency it is transferred to the kneading machines where it is pushed, pulled, and pressed, until every lump is smoothed into the whole mass and it is ready for the press. It is at this point that macaroni manufacture dif-

fers from the making of all other food products.

The modern electrically driven macaroni press consists of a vertical cylinder the bottom of which is a die having openings of a size suitable to produce the various forms of spaghetti and macaroni as required by the trade. The dough is forced through these openings by a piston and as it comes pouring through it is lifted on sticks, deftly handled by an experienced worker, and hung on a frame set up on a little four wheeled cart. As each stickfull is lifted, the stream pouring from the cylinder is broken. The worker must hang the macaroni evenly on the cart and be ready to pick up another bunch before it has become too long. The proper length is about two feet. Even the most accomplished eater couldn't wind up more than two feet at a time. To have it shorter would doubtless call forth a storm of protest from the devotees of real spaghetti; while to have it any longer might put an end to its consumption, since it is generally understood that it is better not to eat the beautiful white threads at all than to commit such a breach of time honored custom as to cut them.

Gayly bedecked with racks of spaghetti in pendulous motion, the little cart is pushed to the drying room, where with great care lest a strand be broken, the delicate load is suspended from frames hung in mid air, there to dry in the soft breeze of many electric fans. This drying process consumes about five days.

Unquestionably the spaghetti made by the Neapolitan peasant is delicious and may be thoroughly enjoyed providing one does not inquire too closely into the cleanliness attending its home manufacture. For Naples though serenely beautiful and clear from the bay, at close range is most astonishingly dirty. This is particularly true in the poorer quarter where its tall white houses with balconied windows, its heat, its laziness, its beggary, its gaiety combined with absolute wretchedness, its women picking chickens.



The Electric Kneading Machine Which Prepares the Macaroni Dough for the Press

washing children, and always and endlessly gossiping, all combine, aided and abetted by a most impossible odor, to give the effect of the most beautifully unsanitary and unappetizing city in the world.

Spaghetti made in the modern sanitary way, in factories where the motive power for operating the big machines is electrical and therefore free from even a suggestion of dirt, is just as delicious as that which is made in the cottage of an Italian peasant under far different conditions.

November 1920

The Old Staten Island Ferry

VOLUME 12 NUMBER 11

CONTENTS

The Edison Monthly

	Page
Editorial	290
Industrial Heating	291
A Piece de Resistance (Verse)	294
Where is the Kitchen?	295
The Electrical Exposition of 1920	298
Sudsward Ho!	307
Battery Mileage and Life	309
Speeding the Canal Boat	310
His Claim to Fame (Verse)	312
Edison District Offices with Map	Inside Back Cover

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Walter Neumuller, Secretary
Frederick Smith, Treasurer

Although nominally an Electrical Exposition, the annual display of progress in the application of electricity is perforce wider in its scope than its name indicates. It is not only an Electrical Show, but a House Furnishing Display, an Automobile Show, a Business Management Show, an Industrial Display, and an exposition of progress in Electro-therapeutics.

The dealer in housewares found at last month's exposition almost every item that makes up his stock: for the man confronted with transportation problems there was a wide variety of electric automobiles: progress in the application of electricity in the medical and dental fields was shown in a way that interested not only the professional user of this apparatus but the prospective beneficiary as well: welding equipment and japanning-ovens vied with electric motors and special types of factory lighting equipment in holding the interest of the factory manager: the cranes, the hoists, the portable conveyors and derricks, and the industrial trucks were but a slight indication of the part electricity plays in the movement of freight at steamship piers and railroad terminals.

Not so many years ago an electrical exposition would have concerned itself principally with showing progress in the electrical art. If it showed generators, batteries, wiring, and motors it would have been considered complete. Today there is practically no limit to the scope which such an exposition may assume.

"Where is the kitchen?" might very well be the first question asked by a visitor to New York's newest style apartments. For in these little dwelling places of one or two, or posibly three rooms and bath, the kitchen is conspicuous by its absence.

In the great demand for living quarters, hundreds of three-story-and-basement dwellings, of a type popular twenty years or so ago, are being remodeled into small apartments. Completely rebuilt, they offer everything in the way of comfort, except the usual type of kitchen. The omission of range, icebox, pantry and sink, is not an oversight,—such a kitchen is not wanted by the occupants of these apartments. Space is too valuable and is needed for other things.

But for the occasional meals that it is desired to prepare at home—breakfast every day and sometimes a supper, some facility less complete than a kitchen must be provided.

In many of these apartments, as described elsewhere in this issue, a closet shelf constitutes the kitchen, and here will be found an electric grill, a percolator, perhaps a toaster, and enough canned goods to provide a light meal on short notice.

The meal over, the array of devices is quickly put away, dishes are washed in the bath room, the milk bottle goes back to the window-sill and as one looks about the question again arises "Where is the kitchen?"

Industrial Heating

THE adoption and continued use of electric heat for japanning, smelting and refining, tempering, and welding, as well as the smaller industrial processes, represents one of the most revolutionary changes in industrial methods of recent years. The success attending every application of electrical heat to industrial use has been so marked that the continued broadening of this field of electrical application is assured.

The flexibility of the electric heating element permits of its being placed in any position without loss in efficiency. The temperature of the oven at the door is just as great as that at the top, floor, or rear. This condition results in speed of production and much finer quality of work than has been found possible in other types of ovens. The fire hazard which had always been a great danger in connection with the japanning process is eliminated through the use of electric heating. Electric heating, besides its advantage of safety, decreases cost of production, both in labor charges and work spoiled.

The electrically heated oven is extensively used for baking X-ray tubes, for drying lacquer, and for core baking. Almost any product requiring such treatment may be baked electrically. Manufacturers of dolls' heads have adopted this

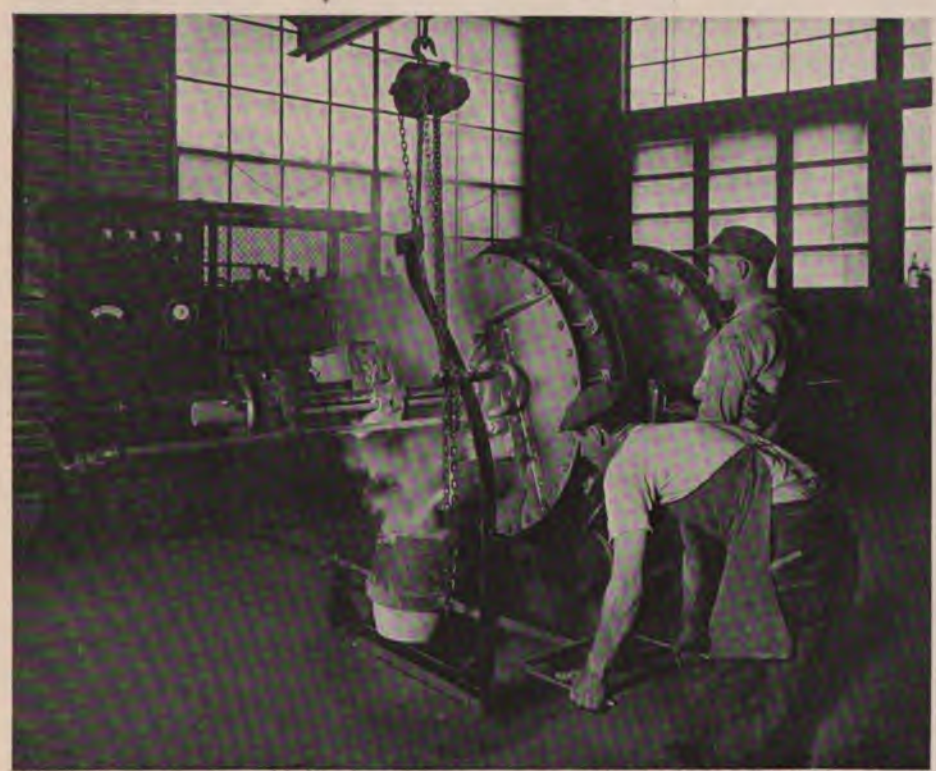


Illustration by Courtesy Booth Electric Furnace Company

The Electric Brass Furnace Increases Production and Reduces Metal Loss

method, as also have silk manufacturers for use in the drying process.

From the electric oven to the melting furnace is but a step, though of course the application of the current is of an entirely different nature. The furnace as we know it now is a comparatively recent development, but one, nevertheless, which has proved itself to be an indispensable factor in the manufacture of many products. While it is put to a myriad of uses, its most common and important application is that for melting and refining steel. The technical reasons as to why electric furnace steel is tougher and has greater resistance than other steel of the same composition would be out of place in this short article. It is interesting, however, to note that contrary to general experience with other steels, an electric furnace steel rail has never been broken in service. The desirability of such steel need hardly be enlarged upon.

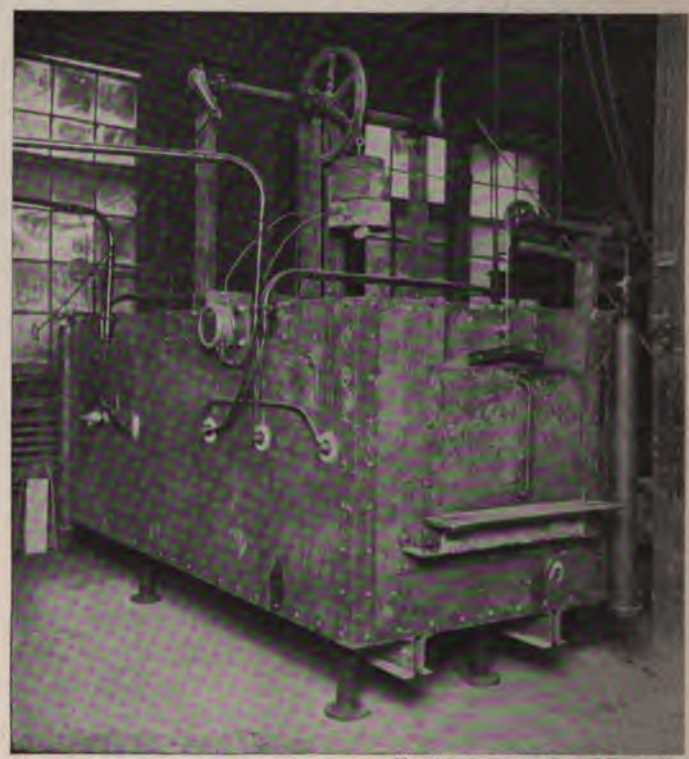


Illustration by Courtesy General Electric Co.

In Baking Vitreous Enamel the Electric Furnace Gives Even Distribution of Heat and Close Temperature Control

The electric furnace for non-ferrous metals is free from many of the handicaps characteristic of the furnace of the past. The temperature of the heat source is easily controlled, and the furnace may be forced if necessary. In other words, heat may be fed to the metal as fast as it is absorbed and high rate of melting results with all of its advantages and none of the disadvantages met with in the old style furnaces. Under actual working conditions the electric furnace has been found most dependable and the margins of savings so great that unquestionably it will dominate the brass melting field in the future.

Electric welding long ago displaced the rivet in the manufacture of cooking utensils and steel office furniture. It is being used in the construction of railroad coaches and freight cars and during the war

proved its value, not only in ship building, but in the restoration to service of the damaged German liners which were to prove so effective in rushing troops to France.

For annealing and tempering and all other metal heating work the electric oven has satisfactorily solved many of the problems which had defied solution for so many years and which had come to be accepted as necessary evils.

In the small electrically heated industrial appliances the same advantages obtain as are found in the large ovens and furnaces. There are the same low production cost, the same element of safety, and the same excellent quality of workmanship. Electric soldering irons retain their heat and eliminate the necessity of a continuous flame. Obviously much time and heat are saved.

Electric glue pots and metal melting pots have proved particularly efficient and are in very general use. In the use of melting pots of any sort much depends on the ease with which the heat may be controlled. A poorly controlled temperature may result in burning glue or, when metal is being melted, the formation of a considerable amount of oxidized metal or scum.

Electricity for general building heating purposes is not yet a practical proposition. However, for heating small spaces, such as the cabs on electric cranes or hoists, which usually are suspended in midair and consequently are invariably cold, electric heating is both practical and advantageous.

There are branches of work in which a specific temperature must be maintained to a fraction of a degree. The cultivation of bacterial specimens such as is carried on at the Rocke-

Illustration by Courtesy General Electric Co

The Electric Japan Baking Ovens Insure a Rapid Baking of Uniform Quality and Finish

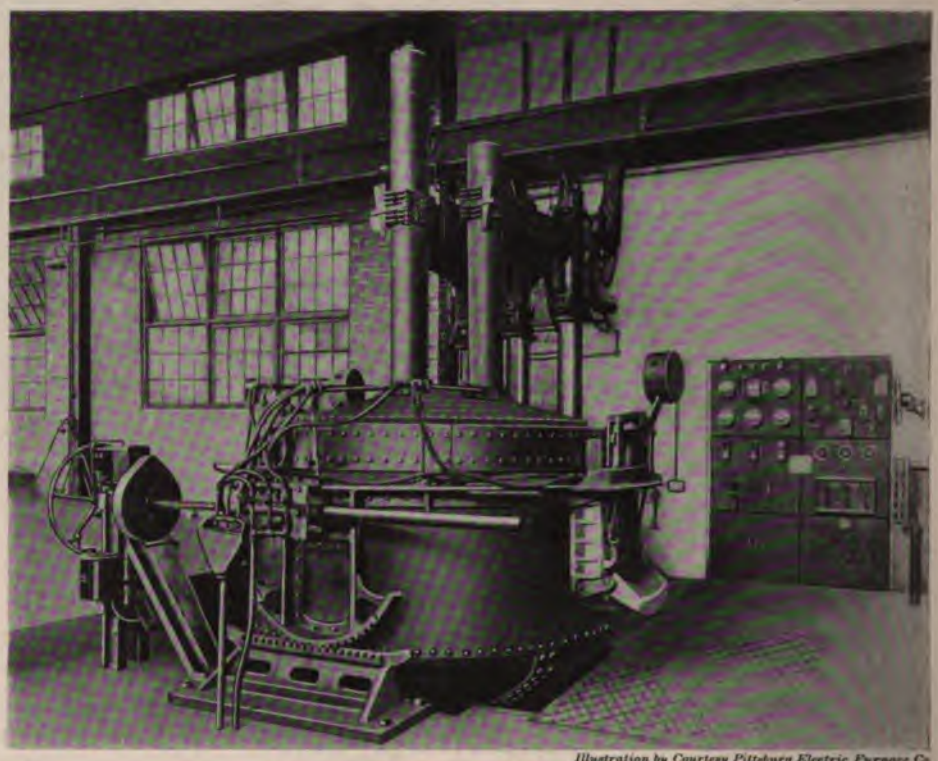


Illustration by Courtesy Pittsburg Electric Furnace Co

A Three-Ton Electric Furnace for Iron and Steel

feller Institute requires a constant temperature within half a degree. Such fine gradations of heat can best be maintained when electrical appliances are used.

Electricity in the field of industry regardless of the many uses to which it has already been applied, is still in an embryonic state. What it may accomplish in the future may best be surmised by considering what it has already accomplished in the past. And from what has been said it must be apparent that electrical energy in the form of heat offers advantages far greater and more valuable than any which may be obtained from heat supplied by combustion. It is clean, safe, and sanitary, but besides these very general qualifications, and the more specific ones already mentioned, the use of electrical energy for heating purposes is a great factor in reducing overhead expenses. Electrical equipment takes up very little room, permitting more space to be devoted to actual production; more work is turned out per square foot of floor space than by the old methods. Insurance rates are much lower when electricity is used since fire risk is so materially reduced.

Said the Ohm to the Watt,
"Now don't you get hot
On wood-alcoholic persistence."
Said the Watt to the Ohm,
"There are bats in your dome,
Tho' you are a *pièce de resistance.*"

Frederick G Davis

Where is the Kitchen ?

As a result of the rapid growth of the population of New York City, a new step has been taken in apartment house construction,—a departure, perhaps, from the already well established type of apartment house for families of about three or more,—but an increasingly popular one among individuals. In almost every part of Manhattan, real estate owners are turning their attention to the possible transformation of private houses into one- two- or three-room apartment houses.

Career-bound, the individual is scarcely likely to spend a great amount of time in unnecessary housekeeping. The average person, in all probability, would seek shelter in a single room,—a marvelous combination of bed room, dining room, kitchen, and living room. Here only the essentials of "light" housekeeping are carried out, with the "kitchen" tucked away behind a screen in one corner.

With popularization of electricity and the growing lists of appliances that save time and energy, the career of a bachelor-maid or boy is at last privileged to move unhampered by old-fashioned household drudgery.

In order that more of these apartments may be a reality, old houses, in every part of the city are being rejuvenated. The wanderer, returning after an absence of several years, would scarcely recognize his favorite haunts of long ago. Perhaps it was when he was a boy that a certain row of stately red brick houses echoed the laughter of New York's youthful society. Later, as he grew to manhood, he saw those same houses serve to shelter people of more moderate means. He sadly realized that the place was changing. But now what is it that he finds?

Photograph by The New York Edison Co

These Dwellings, Altered to Provide a Number of Small Apartments, Are Typical of Changes That Are Taking Place All Over the City

One house in particular attracts his attention. It is within a stone's throw of Gramercy Park. The color has been restored as it was originally, and the red bricks are outlined in white. The old high stoop that used to lead to the front door has disappeared, the doorway itself has been sealed and the main entrance transferred to the basement door, accessible almost directly from the street by way of two shallow steps leading down.

The interior of the house is also quite different, the rooms having been cut up into groups of from one to three and a bath. With the remodeling came the installation of electricity so that the proper lighting facilities might be available, as well as outlets for heating and cooking purposes. Farther up-town one finds house after house in the old residential neighborhoods undergoing transformation. Over on Riverside Drive, the work has been completed, and in the section south of the towering apartment houses, there are unbroken rows of dwellings that now offer the housekeeping comforts of one or two rooms and bath.

In many cases buildings that have degenerated during the passage of time become apartments of the highest and finest type. A specific case is that of the present tenement at 2-10 Grove Street near what was formerly known as "Pigs' Alley." This will become "Grove Court", and, being a part of Greenwich Village, the tenants who will move in after the renovations have been made will occupy what will be called "studio" apartments.

Home life in one of these new type apartments can be made ideal for the active city resident. In, let us say, three rooms occupied by two

Photograph by The New York Edison Co

Old Buildings in "The Village" Soon To Be Made Into Studio Apartments

Photograph by The New York Edison Co

These Adjoining Buildings Show the Change in Appearance When a Thorough Remodeling Is Done

women who are earning their livelihood in the business world, there is an atmosphere of cosy comfort. An uninformed caller, however, wondered at first just how they managed living as they do in what appeared to be only one bedroom, one living room and one sort of dining room and study.

One corner of the dining-room-study had been so arranged and shut off from the remainder of the room as to form a complete kitchenette. The walls had been lined with shelves and enamelled, and against their whiteness shone glistening electrical appliances. The electrical kitchenette, an institution in itself, had developed this mode of living into a refined "light housekeeping." Here it was possible for these two busy women to prepare and cook such delicious meals as they had been wont to tell her about. Here it was that they could have a wee home of their own, enjoy its comforts and refinements, and all within the shelter of a few rooms, away from noisy restaurants and crowded boarding houses.

Even where one room with its folding bed must serve as sleeping room and den, it is possible to add a third duty. As a rule the occupant of such a tiny home will dine at restaurants. But for breakfasts, an occasional supper, or a late tid-bit the electric grill fills an important role. Between meals it occupies very little space in the wardrobe. Brought forth for service it adds wonderfully to the appearance of the table, and its capacity for alluring menus seems limitless.

Electric appliances in the home have long since established their value as time and labor savers. In the electrical kitchenette they are "a joy forever." There is the single or double disc electric stove, as well as the little oven. Among the favorites are the electric percolator, the grill and the toaster.

Everyone knows that home cooking tastes best, and when it becomes such an easy and practical matter with the use of electricity in the kitchenette it would seem that the more kitchenettes the merrier. Not too much time is taken up with puttering around among cumbersome utensils. The evening meal is quickly prepared so that the inviting book on the table in the living room may be read by the soft glow from the reading lamp.

The Electrical Exposition of 1920

NOT only in the number of exhibitors participating, but in the variety of display, innovations, and special features, the New York Electrical Exposition, which ran for ten days last month, established itself in the front rank among exhibitions of this kind. It was the thirteenth time that this leading fixture of New York's exposition program has been held. As for the past eight years, it was given at the Grand Central Palace. Opening on October sixth, it continued for ten days and was visited by nearly two hundred thousand people.

There were five general classes of displays—those designed to interest the home manager, those for the industrial engineer, and those for the medical and dental professions; office equipment made up another group, and electric automobiles constituted the fifth department. New electrical features included a phonograph that changed its own records and started and stopped automatically, an electric hair cutter, a portable wireless telephone for motor boats or automobiles, an ovenette for kitchenette apartments, and an electric roadster only sixty inches in length.

One day military men from nearby posts attended the show. They were particularly interested in the wireless communications exhibit arranged by the Signal Corps. Music on this day

Photograph by The New York Edison Company

General View of the Main Floor at The Electrical Exposition of 1920

Photograph by The New York Edison Company

The Home Economics Booth of The New York Edison Company Attracted Large Crowds

was furnished by the band from Governors Island. On Marine Corps Day members of the Electrical Class of the Marine Corps Institute at Quantico, Va, attended the show. Girl Scout Day brought hundreds of Scouts to the exposition and naturally they were quite interested in the difference between camp housekeeping and housekeeping with the aid of electric servants. Competitive features consisted of a carrier pigeon race arranged by the Signal Corps and a waffle eating contest between representatives of the Signal Corps and members of the Marine Corps Electrical Class. The pigeon race, which was from the exposition to Camp Vail, New Jersey, was won by "General Harris." The winning bird was released by Mr Walter Neumuller, treasurer of the exposition company. The distance was covered in fifty-nine minutes, breaking the record by one minute. In the waffle contest, Private Paul F Jones upheld the honors and the reputation of the Marine Corps by putting away 26½ hot, crisp, electrically baked waffles, while N C Caviness, the army entry, cried "enough" at the twenty-second. After receiving first aid from the Marine rooters Private Jones, and Private Thomas Garrett, who had cooked for him, were able to enjoy the prize they had won—tickets donated by the Hippodrome.

As in former years, the household appliances came in for a great deal of study, for the problems of home management are still far from solution in many homes. But while the women were studying the devices to simplify labor in the laundry and kitchen, industrial engineers centered their interest on the third floor, where there were several displays showing motor drive in the factory

and factory lighting. These displays included a machine shop in full operation. Lathes, drills, grinders, filers, and shapers were shown and an automatic turner attracted attention at the woodworking plant. Another exhibit included a variety of hoisting and conveying machinery, including overhead cranes and industrial trucks of various types and sizes. Apparatus for heat-treating, japanning, enameling, welding, and rivet-heating were also shown.

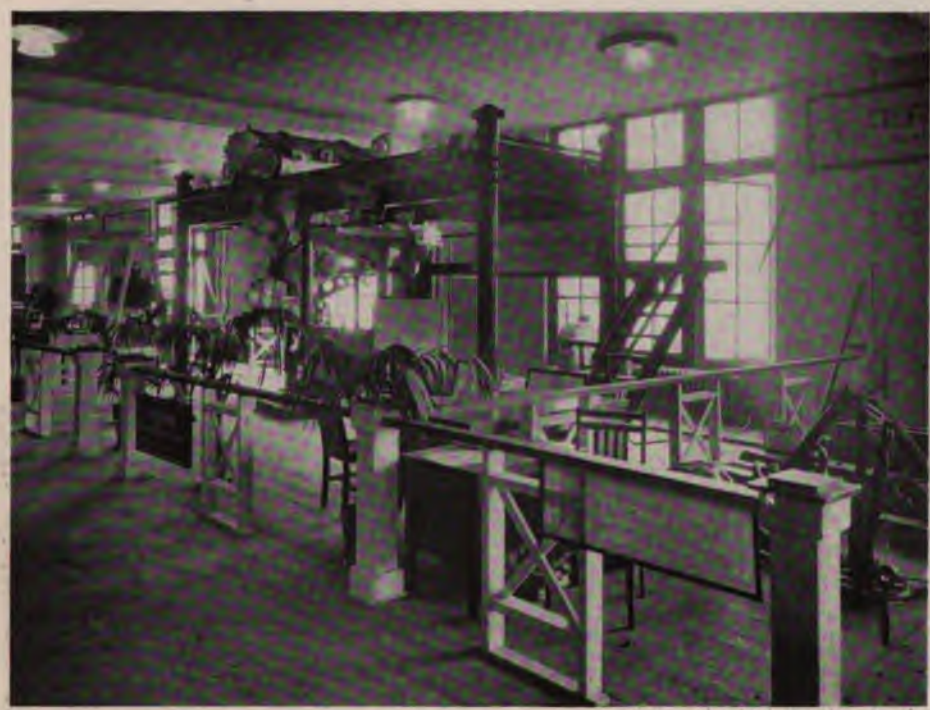
Statistics presented in chart form at the electric vehicle division showed that electric motor trucks give many years of service. For example there are five of these vehicles in New York which have been in regular service for over twenty-two years. There are seventy-four electric trucks fifteen years old and still going. Ten-year service records are held by 395 trucks, while 2448 are five years old and 2889 are now four years old.

There were one hundred and sixty-one exhibitors in this year's show. Among them were:

Alpha Electric Company, 149 West 30th Street; American Ironing Machine Company, 70 West 45th Street; Appliance Distributing Corporation, 673 Eighth Avenue; Balsa Refrigerator Corporation, 140 West 36th Street; Behning Piano Warerooms, 22 East 40th Street; Brooklyn Edison Company, 360 Pearl Street, Brooklyn; W. A. Buerkle Sales Company, 212 Livingston Street, Brooklyn; Clothel Refrigerating Company, 61 Broadway; Consolidated Telegraph & Electric Subway Company, 54 Lafayette Street; Couch & Dean, 1480 Broadway; Disbecker & Company, Inc., 57 West 35th Street; Duparquet Huot & Moneuse Company, 110 West 22nd Street; Duplex Lighting Works, 6 West 48th Street; Edison Electrical

Photograph by The New York Edison Company

At the Electro-Therapeutics Booth Were Displayed the Latest Appliances for the Use of the Medical and Dental Professions



Photograph by The New York Edison Company

The Material Handling Machinery Showed to What a Great Extent Electricity Is Helping in Solving the Problems of the Factory and Warehouse

Photograph by The New York Edison Company

For Handling Freight at Railway and Steamship Terminals Industrial Trucks Have Proved Themselves Economical and Efficient. They Occupied a Prominent Place at the Show

Appliance Company, 147 Waverly Place; Electrical Review, 15 Park Row; Electric Storage Battery Company, Alleghany and 19th Streets, Philadelphia; Electrical Testing Laboratories, 80th Street and East End Avenue; Electrical World, 10th Avenue and 36th Street; Eureka Vacuum Cleaner Company, 31 West 43rd Street; Electrical Record, 114-16 Liberty Street; Signograph Mfg. Company, 31st St. & Broadway; System, Chicago, Ill.

Terminal Engineering Company, 17 West 44th Street; Terry Manufacturing Company, Grand Central Terminal; Western Electric Company, 151 Fifth Avenue; Westinghouse Electric Manufacturing Company, 165 Broadway; U. S. Signal Corps, Washington, D. C.; Bachelet Medical Apparatus Co., Kingston, N. Y.; The Lampagraph Co., Chicago, Ill.

Federal Sign System (Electric), 627 West 43rd Street; Fox Electrical Corporation, 119 West 42nd Street; Frigidaire Corporation, 206 West 57th Street; I. P. Frink, 349 Tenth Avenue; Gage Publishing Company, 114-116 Liberty Street; Gould Appliance Company, Inc., 7-9 West 42nd Street; Habirshaw Electric Cable Company, 10 East 43rd Street; Wallace B. Hart, 46 East 41st Street; Hamilton-Beach Manufacturing Company, 114 Liberty Street; Halliwell Electric Corporation, 62 East 12th Street; Home Devices Corporation, 11 East 42nd Street; Hooven Letter Service, Inc., 117 West 46th Street; Hoover Suction Sweeper Company, 710-2 Marbridge Building; Hurley Machine Company, 147 West 42nd Street; Kimball Electrical Construction Company, 23 West 37th Street; Landers, Frary & Clark, 200 Fifth Avenue.

E. B. Latham & Co., 550 Pearl Street; Laun-dry-ette Sales Company, 34 West 37th Street; Levien Electrical Utilities Corporation, 164 Fifth Avenue; Lightolier Company, 569 Broadway; Majestic Electric Development Company, 1705 Alleghany Avenue, Philadelphia, Pa.; Manhattan Electric Supply Company, 17 Park Place; Manning Bowman & Co., 200 Fifth Avenue; The Maytag Company, 26 So. 15th Street, Philadelphia, Pa.; Metropolitan Electrical Products Co., 1250 Atlantic Ave., Brooklyn; Malba Estates Corporation, 217 Broadway; National Lamp Works, Nela Park, Cleveland, O.; New York Appliance Company, Times Building; The New York Edison Company, 130 East 15th Street; New York and Queens Electric Light and Power Company, Bridge Plaza, Long Island City; New York Tribune, 154 Nassau Street.

Nicholas Power Company, 90 Gold Street; Ohio Electric Company, 145 West 45th Street; Pneuvac Company, Worcester, Mass.; Regina Company, 47 West 34th Street; Royal Eastern Electric Supply Company, 114 West 27th Street; Rutenber Electric Company, Times Building; Shelton Electric Company, 16 East 42nd Street; Sibley-Pitman Electric Corporation, 114 West 27th Street; W. & J. Sloane, 5th Avenue and 47th Street; U. S. Cloth Cutting Machine Company, 414-416 West Broadway; United Electric Light and Power Company, 130 East 15th Street; Viking Sign Company, 560 Seventh Avenue; Western Electric Company, 151 Fifth Avenue.

Westinghouse Electric Manufacturing Company, 165 Broadway; Wireless Improvement Company, 81 New Street; Air-o-Mix Corporation, 50 East 42nd Street; Albaugh-Dover Com-

Photograph by The New York Edison Company

A Very Interesting Exhibit Showed the Manufacture of Felt Hats rom the Raw State to the Finished Product

Photograph by The New York Edison Company

All Types o(Electric Trucks and Passenger Cars were Displayed For Use in Congested Traffic the Electric is Unexcelled

pany, 130 West 42nd Street; Arthur Phelps Marr & Co., Inc., Grand Central Palace; American Electro-Technical Appliance Company, 237 Fulton Street; Aqua Electric Heater Company, 250 West 54th Street; Ackerman - Johnson Company, 344 East 40th Street; Anderson Electric and Equipment Company, 154-60 Whiting Street, Chicago, Ill.; Baker R. and L. N. Y. Corporation, 17 Central Park West; Bell Electric Motor Company, Garwood, N. J.

Frank S. Betz & Co., 6-8 West 48th Street; Berg Electric Car Company, 501 Fifth Avenue; Black & Decker Manufacturing Company, Towson Heights, Baltimore, Md.; Bleadon-Dun Company, 11-17 So. Desplaines Street, Chicago, Ill.; C. C. Bohn & Co., 820 Sixth Avenue; C. A. Bransston & Co., 41 Ellicott Street, Buffalo, N. Y.; Brown Portable Conveying Machinery Company, 30 Church Street; Chicago Fuse Company, 73 Barclay Street; Colgate and Company, 105 Hudson Street, Jersey City, N. J.; J. M. Collins & Co., 27 Warren Street; Commercial Truck Company, 405 Lexington Avenue; Continental Radio and Electric Corporation, 6 Warren Street.

DeForest Radio Telephone and Telegraph Company, 139 Sedgwick Avenue, Bronx; Duro Pump Company, Grand Central Palace; The Elasticap Company, 702 Clinton Street, Hoboken, N. J.; The Electrical Alloy Company, Morristown, N. J.; Electric Supply and Equipment Company, 1270 Broadway; Euclid Crane and Hoist Company, Euclid, O.; The Fairbanks Company, Broome and Lafayette Streets; J. B. Ford & Co., 290 Broadway; Gillespie-Eden Corporation, 25 West 43rd Street; Golden Glow Sign Company, 45 West 34th Street; Guarantee Elec-

Photograph by The New York Edison Company

These Conveying and Stacking Machines are Great Labor Savers and Do Their Work in Far Less Time Required by Old Methods

Photograph by The New York Edison Company

A Furniture Factory in Full Operation Showed in An Interesting and Convincing Manner the Many Advantages to be Gained by the Use of Electricity in Industry

trical Products Company, 110 West 40th Street; Hamilton-Beach Carpet Washer Company, 120 Liberty Street; Hanovia Chemical and Manufacturing Company, Newark, N. J.; Hanover Electric Company, 76 Front Street; Hartt & Morison, 780 Sixth Avenue; R. G. Haskins, Chicago, Ill.; Home-Helps Corporation, 39 West 38th Street.

Independent Lamp and Wire Corporation, Weehawken, N. J.; Isko N. Y. and Suburban Corporation, 26 West 44th Street; Jaburg-Miller, Inc., 137 Hudson Street; Kelvinator Corporation, Detroit, Mich.; Lakewood Engineering Company, 141 Center Street; Lansden Company, 229 West 42nd Street; McIntosch Battery and Optical Company, 1777 Broadway; Machinery Equipment Company, Boston, Mass.; The Maintenance Company, Inc., 417 Broome Street; Mallory Industries, Inc., Portchester, N. Y.; Matthews Lighting Company of New York, 844 Seventh Avenue; Metropolitan District of N. Y. State Association of Electrical Contractors, 26 Cortlandt Street.

National Electric Water Heater Co., Times Building; National Sugar Refining Company, Yonkers, N. Y.; New York Electric Cleaner Company, 237 Lexington Avenue; New York Electrical School, 39 West 17th Street; New Home Sewing Machine Company, 47 East 19th Street; Oneida Motor Truck Company, 505 Fifth Avenue; Patterson Gottfried & Hunter, 211 Center Street; Petroleum Engine and Manufacturing Company, 120 Broadway; Pittsburgh Electric Specialty Company, 451 Greenwich Street; Premier Service Company, 2010 Broadway; Products Import and Export Company, 395 Broadway.

Radio Corporation of America, 233 Broadway; Remmert Manufacturing Co, 200 Fifth Avenue; Robins Lighting Fixture Co., 47 Warren Street;

Robins & Williams, Yonkers, N. Y.; B. F. Schirmer & Co., 21 Park Row; Shepard Electric Crane and Hoist Company, Montour Falls, N. Y.; Thomas B. Snow, 212 East 23rd Street; Steinmetz Electric Motor Car Corporation, 2 West 43rd Street; J. E. Steinmeier Bronze Works, Inc., 203 East 12th Street; Terminal Engineering Company, 17 West 44th Street; Terry Manufacturing Company, Grand Central Terminal; Thermo Fan Electric Company, Inc., 2 Columbus Circle.

William Trussell & Sons, 16 Cedar Street; Tucker Electric Construction Company, 114 West 30th Street; U. S. Electrical Tool Company, 50 Church Street; Paul V. Vandevelde, 37 Roosevelt Avenue, Corona; Viray Corporation of America, 516 Fifth Avenue; The Vitonet Corporation, 23 Flatbush Avenue, Brooklyn; Walker Vehicle Company, Grand Central Terminal; Ward Motor Vehicle Company, Mt. Vernon, N. Y.; Waring Hat Manufacturing Company, Yonkers, N. Y.; Wiebusch & Hilger, Ltd., 106-110 Lafayette Street; Yonkers Electric Light and Power Co., 9 Manor House Square, Yonkers.

American Ironing Machine Company, 70 West 45th Street; D. Dessan, 180 Broadway; Engineering Magazine, 120 West 32nd Street; General Electric Company, 120 Broadway; Hubbard, Floyd Company, Grand Central Palace; Industrial Management, 116 West 32nd Street; Liberty Appliance Company, 249 East 43rd Street; Meyer Scale and Hardware Company, 320 Adams Street, Newark, N. J.; Oneida Truck Company, 505 Fifth Avenue; Dwight P. Robinson Co., Inc., Grand Central Palace.

Photograph by The New York Edison Company

The Electric Bakery Turned Out Delicious Rolls and Cakes During the Whole Run of the Show

Sudsward Ho!

THE Gentleman's Shirt hurtled through the air and fell into the wicker basket with a bump that jarred every wrinkle.

Nearby, the gaudy Pair of Socks, whose gaudiness was slightly faded, looked on with sympathetic understanding.

"Never mind, old chap, you'll be as white as a snowflake on the return trip."

The Shirt aggrievedly ruffled its bosom with that air of breeding which only good tailoring imparts and replied civilly enough:

"Oh I suppose so. But then, one hates to endure the discomfort of these horses and wagons."

"But my dear sir," the Socks spoke patiently yet in rather astonished tones, "this is an electric wagon."

The Gentleman's Shirt showed signs of awakening interest.

"Is it really? I observed the unusual cleanliness of the interior and the absence of unpleasant odors but did not know why. Perhaps you could tell me what laundry we are bound for?"

As an initial opening, the Basket in which they were both lying made its voice heard.

The Laundry Basket Speaks

"Pardon me, can I give you any information?"

"Why yes, glad to have you," came the answer, for the Shirt was none too sure of the social position of the Pair of Socks.

"Well," went on the Laundry Basket, "the electric delivery car you are riding in is one of a large fleet belonging to the Empire Steam Laundry located at 114-124 West Houston Street, whither we are bound, and though the company still has some horses, they are being discarded as rapidly as possible."

The Pair of Socks nodded as if pleased with this evidence of progressiveness.

"As a matter of fact," continued the Basket, "the first electric truck was placed in service in 1915 and is still in daily use. Observation of parallel performance by the electric trucks and the horses brought about the change, for it was found that the work could be done more cheaply, quicker and to better advantage by the new method."

"We are moving!" a shout from the Gentleman's Shirt interrupted.

"That's nothing," said the Socks loftily, "all electrics start just as smoothly, for the power application is steady and gradual. Makes them easy to handle in heavy traffic too. Why, I've heard that the cars of the Empire Steam Laundry often make as many as sixty stops and starts in a day."

Heedless of the speaker, the Gentleman's Shirt brought out a further question, though conversation was a little difficult just then because their truck was passing under an elevated station:

"How does the company take care of its vehicles?"

"Why they maintain their own charging equipment," proceeded the Laundry Basket. "I did hear Mr W E Rowley, who has the management there you know, say that the Empire Steam Laundry Company is installing a new charging board which will take care of six cars. In the

company's stable at 160 West 10th Street, there is already a panel for charging two cars."

Feeling rather neglected in all this talk, the Pair of Socks at last ventured a remark:

"But can electric vehicles do the work?"

The Laundry Basket eyed the Socks scornfully. "Do the work? Twelve more electrics have just been purchased and are covering twenty-five to thirty miles per day while the current consumed costs but $20 per month for each truck! You see the company has tested one of the vehicles and has discovered that it can replace three horses and effect a big saving besides."

"Tell me," the Gentleman's Shirt had, with difficulty, restrained itself until now: "Tell me is the Empire Laundry a large concern?"

"I should say so!" replied the Basket. "They have six complete plants and are continually expanding. But, though they use gasolene trucks when the distance to be traveled justifies the expense, the company is employing electric vehicles wherever possible. Horses will soon be relegated to the past."

"How many electric trucks has the Empire Steam Laundry on the streets?" the Pair of Socks had become attentive during the discussion and was now seeking information.

"Fourteen" answered the Laundry Basket which seemed to have a fund of knowledge about electric vehicles. But then, that was not to be wondered at for the Basket had been riding about in electrics for years and so was well qualified to speak in an authoritative manner.

Photograph by The New York Edison Company

Although Their Records Cover Several Years, the Electric Vehicles of the Empire Steam Laundry Are Still Giving Satisfactory Service Every Day

The storage battery truck in which they were being hurried downtown turned into Broadway and all three were silent as they peered over the tailboard and noted the ease with which the driver handled his car in the congested traffic.

"Well," said the Gentleman's Shirt at length, "I certainly have to admit that electrics seem to be very fine for city work."

"Undoubtedly," cut in the Socks, "and not only that but they are much more economical than any other type of vehicle."

"What you both overlook," reminded the Laundry Basket, "is that, besides being longer-lived than other cars, electric trucks are peculiarly well adapted to this industry for there are many deliveries to be made in a short radius and a load is carried both going and coming. The Empire Steam Laundry Company knows this and is saving money and time by using electrics."

Here the actors in the little incident, the Gentleman's Shirt, the Pair of Socks, and the Laundry Basket, looked at each other regretfully for their truck had come to a stop before a building which bore the sign "Empire Steam Laundry Company" and each knew that the hour of parting had arrived.

"Goodby," said the Socks as they were lifted out.

"Goodby," echoed the Gentleman's Shirt as it was separated from the others; "Perhaps we shall meet on the return trip."

"Good luck! and don't forget that electric trucks are the best solution of urban haulage problems." And, having uttered this last remark, the Laundry Basket found itself alone.

Battery Mileage and Life

Electric vehicle operating capacities are convincingly shown in the records of several passenger cars which are cared for at The Electric Garage, on Central Park West. Apparently the two most important considerations in the minds of those contemplating the purchase of an electric are the mileage per charge and the life of the battery. At least these are the questions which occur with greatest frequency, and the answers are found in the records.

The eight cars in question have an average battery life of 12,500 miles as against the battery manufacturers guarantee of 8,000 miles. The maximum records are 39,000 miles in 3½ years and 26,000 miles in four years.

The following tabulations based on the garage records show the years of service of the various types of batteries, the make of the car, and the mileage derived from the battery:—

	CAR	BATTERY	LIFE	MILES
A	R&L 42	Cell 9 MVIC Exide	4 yrs	26000
B	R&L 42	13 MV Spec Exide	2 yrs	11000
C	R&L 43	13 MV Spec Exide	18 mos	11000
D	R&L 42	13 MV Spec Exide	2 yrs	15000
E	R&L 45	13 MV Spec Exide	18 mos	15000
F	R&L 45	13 MV Spec Exide	2 yrs {2 batteries	25000
G	R&L 45	13 MV Spec Exide	2 yrs	10800
H	R&L 45	9 MVIC Exide	3½ yrs	39000

The records showing mileage per charge of course vary in accordance with the needs of the owner. While there are many days on which a car is used for only twenty or thirty miles there are other days when the speedometer shows readings of forty or fifty miles with occasional trips of sixty miles to indicate maximum capacity.

Speeding the Canal Boat

AGAINST the drab of the pier her pink dress and white apron flashed a bright welcome. She was an oddly placed little figure among the roughly dressed, powerfully built men who were working on the wharves and ships; but demurely feminine, carrying her dainty head with a dignity well fitting her approximately sixteen summers. Smiling a friendly greeting, she led her guest into the heart of the great steel pier toward the spot where men and machines were at work loading freight barges and canal boats for their long, slow journey behind her father's sturdy little tug.

Hers was a big world, a world of winding rivers, lakes, and man-made waterways. For a month at a time her home had been the cabin of a barge, and her playground the barge itself. During the day the great loads of freight were drawn by the puffing tug. By night they anchored and rested until morning bade them be on their way again. From the Metropolis to the Great Lakes, by way of the river and that wonderful waterway, the New York State Barge Canal, the boats were slowly drawn, passing through locks that represent one of the greatest engineering feats of the ages. Over hundreds of miles they went to their destination where they are unloaded, reloaded, and then sent back again to the city. But while the journey itself is slow, new method on piers have shortened time spent at New York so that now a boat is ready for the return trip in a very few days.

In the side of the shed on Pier Six, East River, there are two openings through which giant beasts of burden, built of steel and electrically operated, tirelessly and almost rhythmically carry great loads of freight. Their wiry muscles apparently do not even notice the strain as they raise thousands of pounds from the mountains of boxes and stow them away in the holds of the barges, or pile them on the pier.

Old Methods Were Slow

Previous to the installation of the overhead wharf cranes at the dock near the Battery, the method of handling freight there had been by hand with the aid of a whip boom, block and tackle, and a horse. This process was a very slow one, causing many delays. It was quite inefficient as compared to the new, electrical method now being employed. The work is accomplished with speed and facility, saving time and labor and therefore reducing the cost of freight handling. With one crane and two men in the hold of a barge, it is now possible to unload, in one day, one hundred and seventy-five tons of miscellaneous freight. Under the former conditions it required four days to do the same work.

The horse, used before the electric power days, walked away with a line which raised the load from the hold of the barge. In order to deposit it on the apron of the pier, the whip boom was swung around by hand. This necessitated having a space large enough to clear the side of the pier and the boat's rigging. In depositing the load under the shed of the pier the work had to be done by

hand. In order to lower the whip boom and hook into the hold the horse had to walk backwards, making the operations very slow and tedious.

By means of the Shaw Overhead Wharf Cranes installed by Manning, Maxwell & Moore, material is handled that could not be managed otherwise. The principle of the thing is very simple. In the first place the cranes move on tracks above the shed roof, causing no obstruction of the pier. While they are traveling along the side of the pier they are nearly vertical, giving ample clearance of the shed and the boats alongside. When the boom is lowered, the outboard end is over the boat and the inboard end reaches within the pier shed. The load is hoisted from the barge, carried along the boom, and deposited within the pier shed, having taken the shortest possible course with resultingly greater speed.

At Pier Six, two barges may be loaded or unloaded at the same time, one crane working at the forward hatch of one barge, and the other working at the after hatch of the second barge. Or, if the loading of one barge needs to be hurried, both cranes can work on it at the same time, speeding up

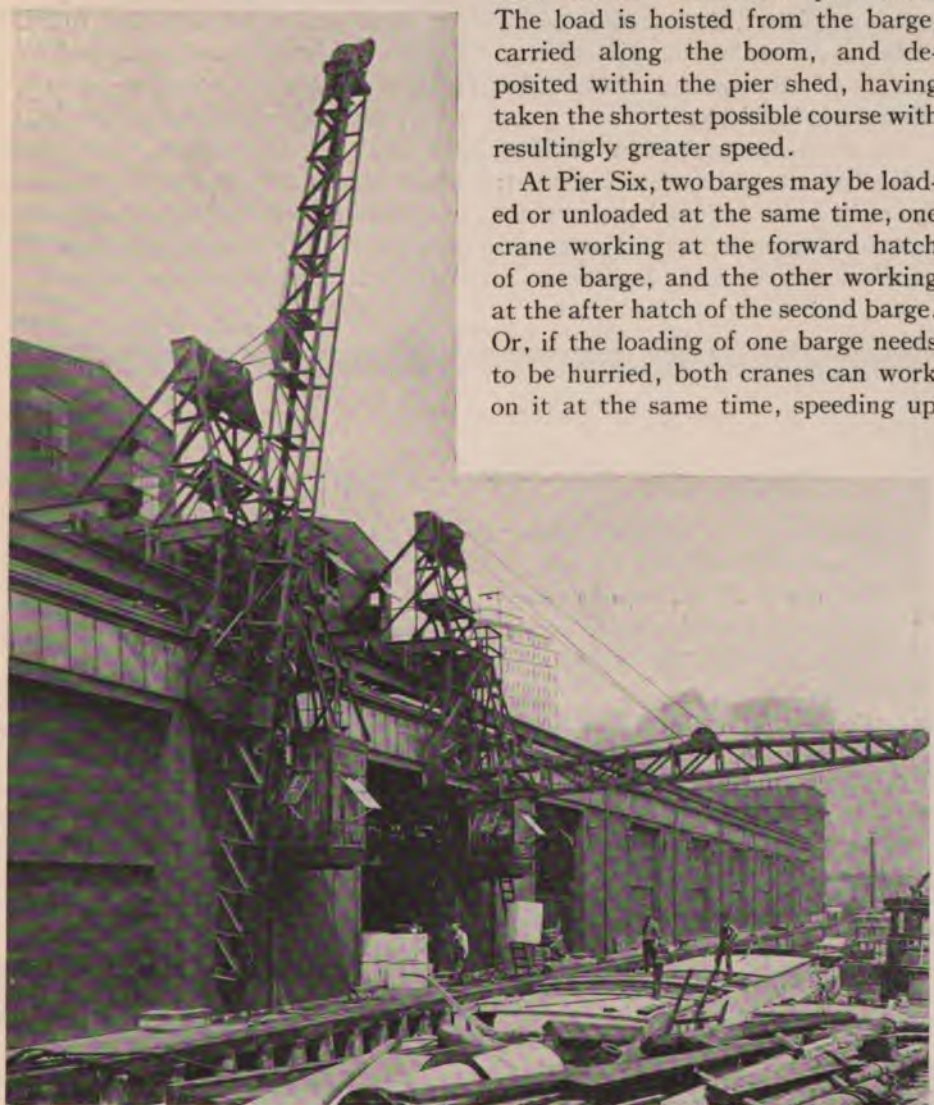


Illustration by Courtesy Manning, Maxwell and Moore

The Electric Equipment at the Barge Canal Terminal, Pier 6, East River

the freight handling one hundred per cent. If vessels floating higher out of the water than barges are to be loaded, the boom can be raised to any angle up to forty-five degrees.

The crane operator sits in a cage suspended from the crane frame at one side of the boom and has a complete view of the load, This fact, along with the ready accessibility to the controllers, the solenoid operated brakes, and the dynamic lowering feature of the crane, makes for safety and simplicity.

The cranes are equipped with Shaw motors of 220 volts, direct current; the hook hoist and rack motors are eighteen horsepower; and the boom and travel motors are eight horsepower.

It is of interest to know that the hook hoist and rack have a speed of 125 feet per minute when carrying a full load. The boom may be hoisted from a horizontal to a vertical position in one minute, traveling at the rate of 100 feet a minute.

In the future, when the bargeman takes his family on a trip with him their stay at freight terminals will not be as prolonged as it used to be. The barricades of boxes, behind which his children used to play on the piers, disappear as if by magic into the holds of the barges, when the wharf cranes are employed, and the long tedious journey up the Hudson through the Erie Canal, and out upon the Great Lakes begins once more.

His Claim To Fame

There is a man lives in our town,
Who locally has won renown
Because of all the wonders he
Performs with electricity.
He wakes when his magnetic clock
Arouses him with gentle shock,
And snaps a current through the wire
That opens up his furnace fire.
Another snap, and soon a coil
Has set his coffee-pot to boil,
And by the time he's dressed, almost,
He finds electric eggs-on-toast.

And as he starts, so he proceeds
Throughout the day. His varied needs,
Business or pleasure, all display
Some phase of "the electric way".
At night, his nose he does not bark
Groping for switches in the dark,
But by device called "Dim-a-Glim"
He saves the skin and swears of him.
On "volts" and "amperes" he'll enlarge
With such continuous discharge,
You will not wonder such a man
Is known as "The electric fan".

Frederick Moxon

December 1920

Atlantic Garden, A Century Ago
9 Broadway

VOLUME 12

CONTENTS

NUMBER 12

The Edison Monthly

	Page
The Electrical Directory	Inside Front Cover
Editorial	314
A Message from Santa	315
Torch Bearers (Verse)	319
Philadelphia—New York via Electric	320
Electric Trucks in New York	321
The Gotham National Bank	323
Co-operative Ownership	324
The Child's Garden of Electric Verses (Verse)	324
Silent Guides	325
Refrigeration for Florists	328
Edison District Offices with Map	Inside Back Cover

Copyright 1920, by The New York Edison Company

The Edison Monthly
Published by
The New York Edison Company
General Offices
Irving Place and Fifteenth Street
New York City

N F Brady, President
Walter Neumuller, Secretary
Frederick Smith, Treasurer

There was once a time when even the most optimistic electric vehicle enthusiast hesitated at sending storage battery trucks very far from the home garage or boosting station. It was felt, and not without reason, that while the electric was a remarkably efficient vehicle it was decidedly limited in its operating radius.

The refutation of such beliefs is seen in the recent trip of a five-ton electric truck from Philadelphia to New York, a distance of close to one hundred miles. As a result of such trips it is more than probable that an electric trucking service between the two cities will eventually be established.

Covering the distance in eight hours actual running time, at speeds averaging from eight to fifteen miles, and at a cost of less than five dollars for current, the big vehicle proved its merits in those two important factors —speed and economy. The necessity for two battery boosts, however, brought the time on the road to some fifteen hours. This was the one weakness of the performance but it is one that can easily be corrected when the Philadelphia run becomes a reality in the trucking world. Through the use of standardized batteries and the establishing of battery changing stations along the road this difficulty will be overcome and electric trucking between these two big cities will have all the speed of the gasoline vehicle and all the advantages of economy and reliability of the electric.

Picture if you can the railroad ticket-offices throughout the city without those electric signs which indicate the location of the counters of the various railroads and steamship lines. What indescribable confusion as anxious purchasers seek the proper ticket agent. Here is Mr Lehigh Valley trying to buy Wilkes Barre tickets at a New York Central desk; an Adirondack hunter is lost in the wilds of the B & O system; an Erie commuter drops his packages on the toes of a Pennsy traveler, and a Harvard alumnus finds himself evesdropping at Phoebe Snow's elbow. All this assumes that those silent guides, the little plate glass signs that hang over each counter are missing or have gone suddenly dark. As it is, the signs are there all through the busy day, silently pointing the way and literally answering thousands of unasked questions.

The placing of such signs is a comparatively recent development, and, as described elsewhere in this issue, is growing not only in extent but in importance as well. Indeed, it is claiming the very serious attention of architects, for not only are such guides necessary in showing the way about our huge new buildings but they must be planned with the same care that goes into the selection of other equipment details if they are to be effective in operation and harmonious in design.

A Message from Santa

THE Father of the Good Little Boy sat in his deep arm chair smoking a briar pipe while he waited for Santa Claus. Big puffs came out from between his lips and filtered off lazily through the golden haze encircling the library table lamp. His eyes twinkled merrily and he smiled a whimsical sort of smile as he thought of the pack of Christmas toys that Santa was going to deliver that evening for the Good Little Boy.

"Somewhat different from my time," he mused.

"No electrical toys in those good old days. Had to imagine the action or supply it myself. Now—if I—might have—had—a—motor—like—"

His head began to nod as he went back reminiscently to his own boyhood days.

In the Good Little Boy's bedroom, a mother was tucking her wide-awake son into bed.

"I've been good for mos' a week, haven't I, Mother?" he queried innocently and yet expectantly.

"Do you think he'll bring a 'lectric train that really goes on tracks? An' will it have signals an' lights an' everything? An' will he bring me a building set so's I can make bridges and things?"

"I've Been Good For Mos' A Week, Haven't I, Mother?"

The mother smiled knowingly, kissed him as she bent over to give a final pat to the covers under his sturdy little chin, snapped off the electric light on the table near his bed, and then left the room, gently closing the door behind her.

Meanwhile the Father of the Good Little Boy had nodded himself away into Dreamland where, on a Christmas morning, he found himself looking for Santa Claus. He stepped across the threshold of the living room and paused just inside the door, his eyes dazzled by the brilliancy of a tree far more beautiful than any he had ever seen before. A myriad of lights glistened among the branches of evergreen. Each shone through a small glass form grotesquely or fantastically fashioned. They became multiplied as their reflections danced in the mirror-like balls and festoons of gayly colored crystal. No pungent odor of smoking candles came to his nostrils. There was no sputtering wax to drop its stickiness over the gorgeous dress of the gala-day tree. But instead each light beamed forth with a steadiness that only electric power could give.

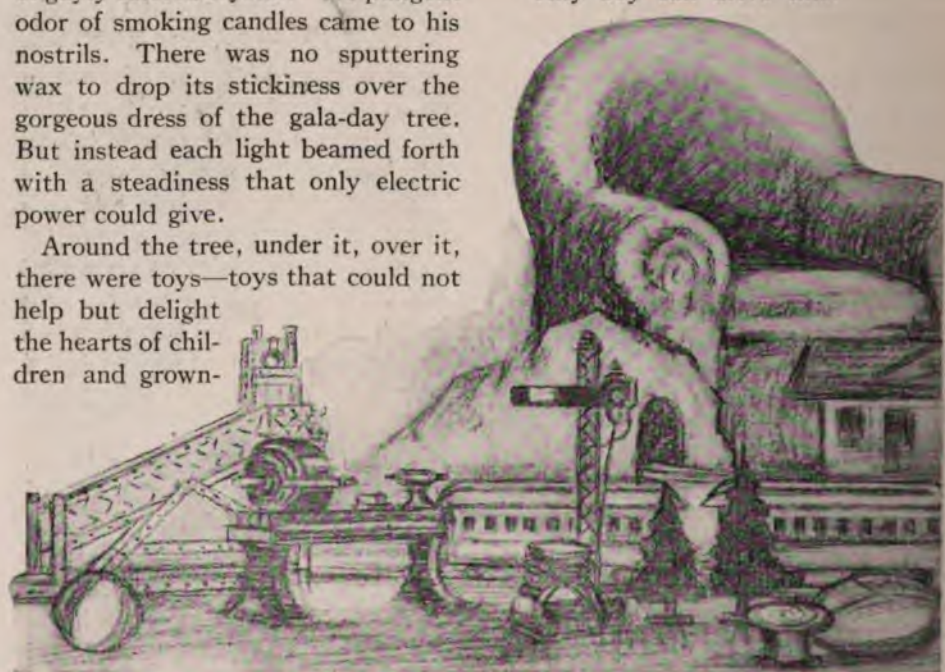
Around the tree, under it, over it, there were toys—toys that could not help but delight the hearts of children and grown-ups alike. There was something about them that would make any beholder's heart beat fast and his eyes sparkle. Santa Claus had evidently never planned such a Christmas as this! The Father of the Good Little Boy took a step farther into the room and nearer to the wonderful display. As he did so he heard an automobile horn within the very same room, and started in amazement at the sight of Santa himself riding out from behind the tree in a little red electric car, into which, let it be known, he just about fitted.

"Came all the way from my shop in this," he said with an air of pride, at the same time pulling the controller that brought it to a standstill.

"It is a real electric automobile."

To prove it, he leaned forward and opened the top of the hood so that the storage batteries were exposed to view.

"Any boy can drive this."

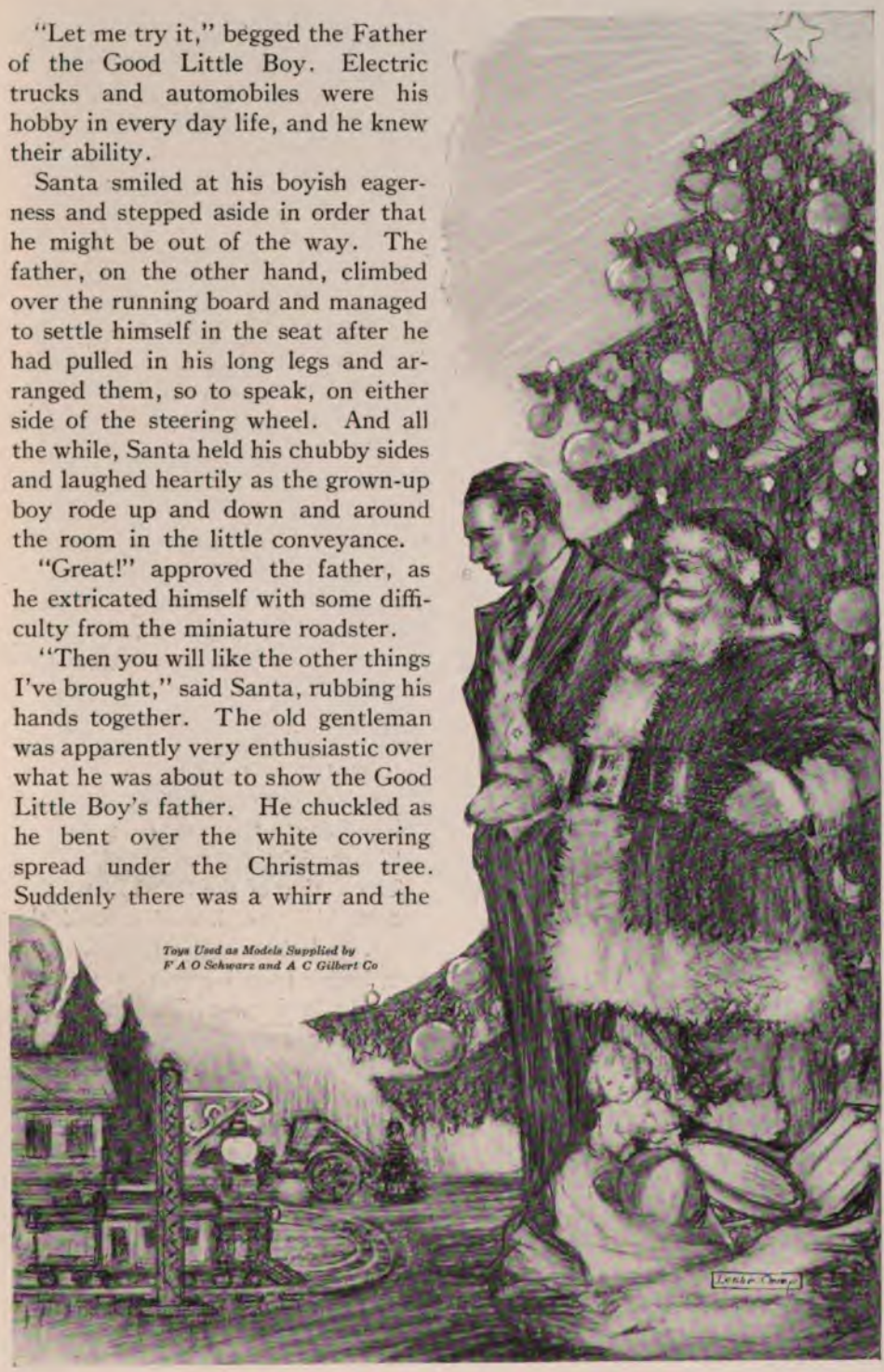


"Let me try it," begged the Father of the Good Little Boy. Electric trucks and automobiles were his hobby in every day life, and he knew their ability.

Santa smiled at his boyish eagerness and stepped aside in order that he might be out of the way. The father, on the other hand, climbed over the running board and managed to settle himself in the seat after he had pulled in his long legs and arranged them, so to speak, on either side of the steering wheel. And all the while, Santa held his chubby sides and laughed heartily as the grown-up boy rode up and down and around the room in the little conveyance.

"Great!" approved the father, as he extricated himself with some difficulty from the miniature roadster.

"Then you will like the other things I've brought," said Santa, rubbing his hands together. The old gentleman was apparently very enthusiastic over what he was about to show the Good Little Boy's father. He chuckled as he bent over the white covering spread under the Christmas tree. Suddenly there was a whirr and the



Toys Used as Models Supplied by F A O Schwarz and A C Gilbert Co

miniature village that snuggled in a valley of snowy muslin seemed throbbing with life and industry.

Emerging from a dark tunnel, a tiny electric engine pulled its load of cars along shiny railroad tracks, and sped across the white field toward the station. Under an arc light it deposited passengers and baggage, and with the semaphores saying "all's well ahead" it started onward again.

"This system can be enlarged," Santa explained, "by means of more tracks, more trains and more signals. The electric current is supplied either from dry cells or storage batteries, or, when there is electricity in the house, through a transformer. In the latter case there is a lamp cord attachment which can be fitted into any lamp socket."

The fur coated figure of the merry old man was moving about, patting here and adjusting there and admiring the effects obtained. The Father of the Good Little Boy watched him with interest.

"Santa, you never brought me anything like that when I was little."

"Times have changed, my dear sir," replied the old saint.

"Your generation, now grown up, believes in combining play and education. Train the boy while his mind is growing. Look at this."

Taking a box containing a set of steel beams and girders from the toys arranged under the tree he rapidly constructed a tower in which there was soon in operation, by means of a tiny motor, an elevator.

"Let the boy invent and construct his own toys. With electricity he will be able to make them work. The boys of today are tomorrow's inventors. It is a good thing for them to be allowed to experiment. If they are inclined to like bridges and machinery, let them play bridges and machinery."

"Um-m-m. Good idea! What's that?" pointing at another box.

"Telephone set; and that is a wireless outfit. You'll be a bit interested in it yourself, so much so that I'll wager you will use it most of the time."

Already the little boy's father was kneeling beside a machine shop outfit in which there were drills and lathes all run by one little motor when connected up with belts. He had almost forgotten that the trip Santa had made was not for him but for the little boy who was asleep in the next room. Suddenly he heard a buzzing sound. Looking up he saw coming toward him a small airplane. He ducked in order to get out of the way and in so doing came face-to-face with a miniature motor-driven tank.

"Don't you think that you had better be more careful?" he heard the voice of Santa Claus saying:

"You might get run over."

The Father of the Good Little Boy opened his eyes, looked around the room, and then began to unfold his long length from his great arm chair. Directly in front of him in a little red electric automobile sat the Mother of the Good Little Boy laughing.

"Santa Claus came and went while you both were asleep," she said. "Come and see what he left."

There, under a beautiful tree quite like the one he had seen in his dream, were the toys about which he and Santa had talked; and in the next little room the Good Little Boy slept on, impatient for Christmas morning.

Torch Bearers

The Stars and Moon are old-time friends,
But my mysterious brother Sun
I've never seen, for his work ends
Before my duties are begun;
Winds through the tree-tops tell to me
How wonderful and proud is he.

The silver moths fly 'round my flame—
Frail gossips of each evening—
For whom the sun is more than name;
They watch him westward traveling,
Sinking his gorgeous golden rim
Beyond the far hills' purple brim.

His power more radiant is than mine—
Since Heaven's Wizard wills it so,
But I am quite content to shine
Earth's candle, in the dark below.
Let this great Sun rule day and light,
I am torch-bearer for the night.

Mazie V Caruthers

Philadelphia-New York Via Electric

MAINTAINING an average speed of better than twelve miles an hour, a five-ton electric truck made the 96.3 mile trip from Philadelphia to New York, on October 13. The trip was accomplished with only two battery boosts which aside from its own interest indicates new possibilities in long distance work for the battery-driven automobile.

The vehicle was built by the Commercial Truck Company at Philadelphia for The New York Edison Company in New York. The trip from city to city was decided upon, not alone for the sake of a prompt delivery but to make available the operating data for a run of that distance for so large a truck. The start was made at 5:20 a.m. New York time, and at 8:30 p.m. the vehicle was on display at the New York Electrical Show. This makes the elapsed time for the trip 15 hours and 10 minutes. The actual running time was only eight hours. The cost of current for the run was only $4.98, the rate averaging about 6 cents per KWH. Battery boosts were given at Trenton and New Brunswick. Thus the truck made a run of 31.3 miles on its original charge, a run of 28.9 miles from Trenton, and a run of 36.1 miles from New Brunswick to the Grand Central Palace, New York. The Trenton boost of 31 KWH was given in 250 minutes and cost $1.86. The New Brunswick boost of 25 KWH required 175 minutes and cost $1.50.

While the elapsed time of fifteen hours is not particularly fast, the actual running time of eight hours, at a speed of from eight to fourteen miles per hour, is very good. This includes the time lost on the North River ferry and the time in passing through the twenty or more towns and cities between New York and Philadelphia.

This fast running time and the very low cost of the trip opens up remarkable possibilities for the electric as an interurban carrier.

Heretofore the electric has been considered suitable only for work in the cities and over distances that were within easy reach of the charging station. On the other hand the gasoline truck has been free to go anywhere where gasoline could be purchased. Then too it requires only a few minutes to refill a gasoline tank, as against hours for recharging a storage battery.

A Battery Exchange System

If the New York-Philadelphia electric truck run is established, there will be battery stations, two perhaps, where batteries will be exchanged instead of boosted. Thus a truck will run from New York to New Brunswick, change its exhausted battery for a new one, continue to Trenton where another battery change will be made, and then finish the trip to Philadelphia. The changing of batteries will be a matter of minutes, and the whole run will occupy between eight and nine hours. Current will cost less than five dollars, as compared with the ten dollars for fuel and oil for a gasoline truck. The

fixed and overhead charges will also be considerably less. With such a battery changing system, trucking by electrics will have all the speed of the gasoline car, and all the advantages of economy of the electric.

The truck which made this trip is now in the regular service of The New York Edison Company, hauling such heavy loads as are part of the work of a Central Station serving a large city.

Electric Trucks in New York

With the sale of 525 vehicles since the first of the year, the investment in electric trucks in New York has reached the impressive total of $22,-750,000. The number of vehicles sold up to November 1st represents an increase of 548% over the number sold last year.

There are now 4525 trucks of different types in service in New York, in installations ranging all the way from a single vehicle up to the big fleets of the Ward Baking Company, the American Railway Express Co, R H Macy & Company, the Bush Terminal Company, Gimbel Brothers, Cushman's Sons, Inc, Stern Brothers and the N Y Railways Company.

Low operating costs, cleanliness, reliability, simplicity of construction and operation, together with adequate garaging facilities are some of the factors which explain the rapidly growing use of electrics in New York.

Photograph by The New York Edison Company

New Possibilities for the Electric in Interurban Hauling Are Indicated by the Recent Philadelphia-New York Run

Sommerfeld and Steckler, Architects

The New Twenty-three Story Building of the Gotham National Bank Will Be Conspicuous Among the Columbus Circle Skyscrapers. An Extensive Electrical Equipment Will Be Supplied by The New York Edison Company

The Gotham National Bank

RISING twenty-three stories above Columbus Circle, the new building of the Gotham National Bank will be a landmark among the several notable structures in this rapidly developing uptown business centre. For years the United States Rubber Company Building, as viewed from the Park, has stood out in sharp relief; now it must share the upper-air levels with the new bank, with the massive structure of the Fisk Rubber Company, and with the twenty-story building of the Excelsior Savings Bank on West 57th Street.

The planning of structures of this type for this neighborhood can mean but one thing—that Columbus Circle must necessarily become the next great central point in the northward commercial procession after Times Square has been developed. With one subway passing right through it, another a block away, an elevated line a block in the other direction, with street cars and buses and countless automobiles, the claim that the Circle is the busiest junction point in the city seems well founded.

The new building of the Gotham Bank will occupy a plot 84 x 100 feet on Fifty-ninth Street while an extension of the main building will give an extrance on Broadway. The bank itself will occupy all of the main floor and a large portion of the second floor. The entire first basement will be utilized for safe deposit purposes. The new vault, which will be one of the largest in the country, will have a capacity of 12,000 individual boxes. There will be a conference room in addition to the regular coupon booths, and every modern convenience and facility will be afforded patrons. Among the features that will be introduced, to the very great advantage of its clientele, will be the increased number of paying and receiving windows, which will take care of hundreds of patrons during the rush hours, without the inconvenience of waiting on line.

Construction Methods

The project centres around Mr Clarence S Weller, vice-president, and Mr Edward Wells, who is in charge of the building operations.

Work was started last summer and by August 5 the steel frame had reached the street level; by November 10 the last of the 2000 tons making up the skeleton had been erected and five days later the brick facing was complete. Several factors contributed to this rapid progress, not the least of which is the fact that electricity was used exclusively in furnishing power for the builders. Electric motors drove the three hod hoists which carried materials as the work progressed; another electric motor operaated the derrick which raised the heavy steel beams and girders; and a motor-driven air-compressor supplied power for the drills in excavating for the foundation, and then, when the steel work started, supplied power for the riveters.

The new building by reason of its height embodies the setback principle of construction, which, combined

with Gothic architecture, and an exterior finish in granite, terra-cotta and brick, makes a structure of unusual beauty.

Provision for electrical service is very complete. For lighting purposes there will be 4500 lamps, while the motor installation will total 405 horsepower. Six passenger elevators, each operated by a forty-horse-power motor, will give high-speed service for the tenants; a service elevator will be operated by a twenty-five-horse-power motor; five horse-power will be required for a sidewalk lift; a ventilating system calls for one hundred horsepower, and the pumps will require thirty-five horse-power.

Not included in the preliminary specifications, but nevertheless forming a very important part of the bank equipment, will be the electrically operated protective system for the banking rooms and vaults.

This very extensive electrical installation will be supplied from the lines of The New York Edison Company, as indeed will the several other buildings now under construction in the Columbus Circle neighborhood.

Co-operative Ownership

A recent wholesale contract taken by The New York Edison Company calls attention to one of the interesting present day developments in the ownership of apartment and business buildings. This is the co-operative plan, where the tenants unite to form a corporation which purchases the building, each tenant holding stock representative of the ownership of the portion of the building he occupies.

The contract in question is for supply of electrical service for the Hamilton Building, a ten-story structure at 22 Thames Street. It was erected in 1888 by the Western Electric Company, which installed a complete generating plant at the time. When the Western Electric Company moved uptown the property was purchased by the Hamilton Building Company which continued to use the plant then in operation. Finally Edison Service was substituted two years ago.

Recently, fearing that the building might be sold to interests which would deprive them of their location, the tenants organized the 22 Thames Street Corporation and purchased the property, which has been held at $600,000. Almost all of the tenants of the building are in the printing or allied industries. In fact, the building has come to be known as the headquarters for printers having particular association with the financial district.

The Child's Garden of Electric Verses

(Thirty-five years after R L S)

The Electric Range all clean and bright
I love with all my heart;
It gives me heat with all its might
To bake my apple tart.

In Winter I get up at night
And dress by my electric light
In Summer quite the other way,
I work my 'Lectric Fan all day.

A child should always do what's right
With this electric heat and light;
And use it at the breakfast table
At least as far as he is able.

Current lights my nightly way
And cooks my dinner everyday;
And I may have, if I've been good,
Electric coffee after food.

Carolyn Wells

Silent Guides

A SMALL electric guide sign is the latest public convenience to make its appearance in hotels and theatres and, in fact, in almost every place where large numbers of people congregate. The chief purpose of these little signs is to indicate the location of various departments of a building. For example, in the Pennsylvania Hotel one finds electric signs at every turn pointing the way to the news-stand, the cashier, the grill and indeed to any department which one might name. The Consolidated Railroad Ticket Offices throughout the city use these signs in indicating the location of the counters at which are represented the different railroad and steamship lines. In the corridors and halls of such office buildings as the Western Union or the Equitable these directional signs are of great value, pointing the way to the elevators, to the stairs or to the offices of the management. Wherever a guide is needed these signs will be found to be a great convenience. There seems to be no limit to the valuable uses to which they may be put. At railway terminals, theatres, clubs or in public or semi-public buildings they earn their initial cost many times over in words saved and petty misunderstandings avoided.

These signs are made in many

Photograph by The New York Edison Company

These Electric Directional Signs Save the Asking and Answering of Thousands of Questions Daily

styles and designs. Some are portable and the letters interchangeable. This type is designed for use, let us say, at a news-stand and informs the prospective purchaser of the latest magazines. Or again such a sign might be used to inform the guests of a hotel of various events which are to take place that day. These signs are constructed in many designs to be in keeping with their surroundings. Some are so made that they can be hung from the ceiling while others are on pedestals. While this type of portable electric sign is very valuable and may be put to many uses, the permanent types are becoming more and more popular at this time. Practically all the large hotels are making very extensive use of them throughout their lobbies and corridors in directing guests to the various departments. Attached at right angles to the wall and high enough to be plainly visible above the heads of the crowd, these little signs are mutely answering literally millions of questions daily.

Among the signs of this type are those made up in the form of boxes, usually of bronze, with glass letters mounted in the metal sheet, and illuminated by lamps within the box. Another type consists of a glass plate into which the letters have been blasted. Mounted in the bronze frame in which the glass is set, is a tubular lamp so arranged that the light rays passing up through the edge of the glass plate catch and bring into prominence the letters of the sign.

Just as lighting fixtures are designed in various styles appropriate to the general decorative scheme of the place in which they are to be used, so interior electric signs are being designed in harmony with the architecture of rooms or corridors in which they are to be placed. Like the lighting fixtures, these signs should be planned for by the architect before actual construction work on the building is started. There are a number of buildings today which were built before the electric directional signs were developed. Consequently when increased business, not to mention convenience to the public, necessitated the installation of directional signs, extra wiring was

Photograph by The New York Edison Company

Swung from the Ceiling by Chains. This Sign is Very Well Adapted for Use in Department Stores. Through the Open Bottom It Also Provides General Illumination

Photograph by The New York Edison Company

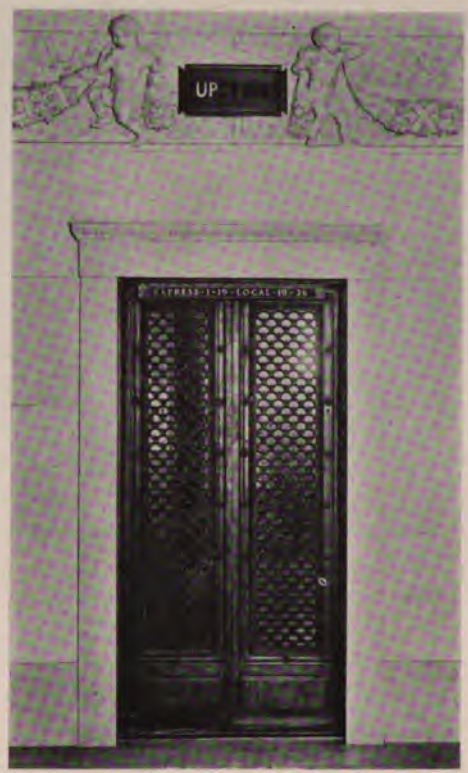
A Portable Sign in which the Letters May Be Changed May Be Used in a Variety of Ways

necessary. This, of course, entailed expense, and naturally caused more or less annoyance to the occupants of the buildings. Now that the sign has proved itself, architects are devoting the same careful attention to it as they devote to the other items and materials that go to make up the completed building of today.

Indeed it is quite as necessary that professional services are employed in the choice of these interior signs as it is for other installations in the building which necessarily carry varying degrees of ornamentation. It is even perhaps more important that particular care be devoted to the choice of these signs than even to the lighting fixtures since their chief value depends on their conspicuous location. So from two points of view, the essentially practical which requires the installation of these signs at the same time the building is constructed in order to save later expense, and the artistic which demands that the signs be in good taste and in harmony with the rest of the fittings, it is obvious that these signs warrant the architect's consideration.

Although especially well suited for use in hotels or public buildings these small signs are extremely effective when used in show windows. There are certain high-grade classes of merchandise which if displayed with descriptive matter of the usual printed type, would lose a great deal of their attractiveness. Proper atmosphere would be lacking. It is assisting in the display of such merchandise that these signs have been of very great value. The type of sign used for show windows is usually the interchangeable letter sort and is not a permanent fixture. This, of course, permits its use either in the window or inside the shop. Made weatherproof, these little signs have even been used out of doors but more as an illuminated address immediately over the entrance to a shop than as an advertising medium. Signs for this purpose are usually the box type.

While the field for the larger electric signs has been very successfully covered, resulting in the use of these signs for almost every purpose where signs are required, the field for the



Photograph by The New York Edison Company

Showing How an Interior Sign May Be Built to Be in Harmony with its Surroundings. The Elevator Express Sign Is of the Flush Type

small electric sign for interior use has only just started to be developed. That it will be a very wide one and will lead to many new uses for interior signs is already assured by the very large installations which have already been made.

Refrigeration for Florists

A sizeable concern doing business under the name of wholesale florists would naturally be thought of as dealing in flowers. Such, however, is not the case with the New York Florist Supply Company of East 28th Street, which supplies florists not with flowers but with greenery of all kinds.

While different seasons produce a short-lived supply of special varieties, such as the oak and rock-maple leaves of late fall, the ordinary stocks are familiar to every one. The source of asparagus green is very general. That of the common forest ferns appears to be limited to the woodlands of northern New York and neighboring New England areas, where they are gathered in great quantities, arriving here in tightly bound bales.

Once unbound and sorted, the future of these ferns, and indeed of all greens, is associated with a most interesting electrical refrigerating equipment.

The plant, installed by the Triumph Electric Company of Cincinnati, employs a horizontal, double-acting ammonia compressor operating at a speed of 85 RPM and capable of producing fifteen tons of refrigeration. The compressor is driven by a 27 horse-power motor and current is supplied by The New York Edison Company. A double-pipe ammonia condenser consists of two stands, each eight pipes high. There are in all 4313 lineal feet of the one-and-one-quarter inch pipe arranged in coils and distributed in five storage rooms properly proportioned for the refrigerating duty required.

These rooms are each equipped with a steel tank filled with calcium chloride brine, with cooling coils submerged in each tank. Of special interest is the fact that the brine will absorb enough refrigeration during the day-time when the compressor is operating to keep the rooms cooled throughout the night when the machine is shut down. This applies as well during the hottest weather.

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

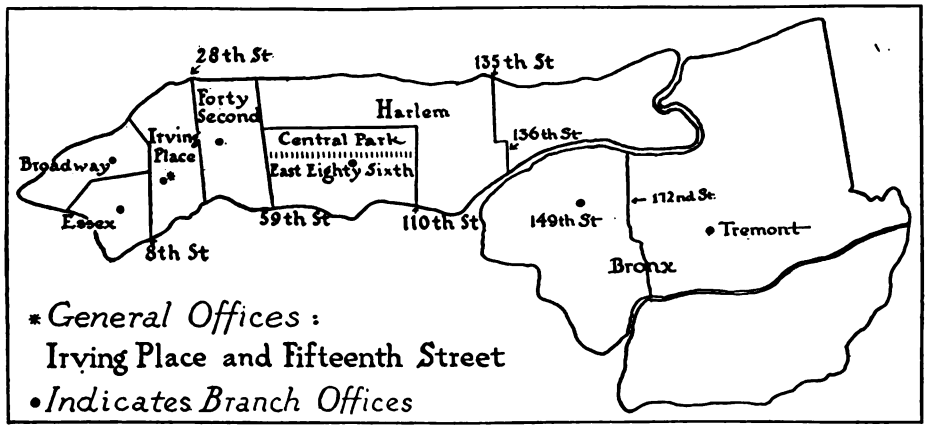
Office at 13-15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The EDISON Monthly

and Electrical Directory

AUGUST 1919

THE NEW YORK EDISON COMPANY
Irving Place & 15th Street, N.Y.

The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it do any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

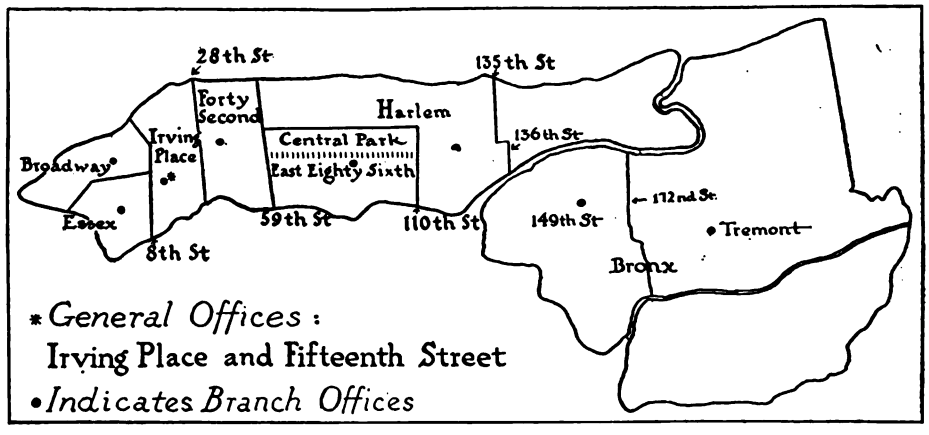
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The EDISON Monthly

and Electrical Directory

AUGUST 1919

THE NEW YORK EDISON COMPANY
Irving Place & 15th Street, N.Y.

The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

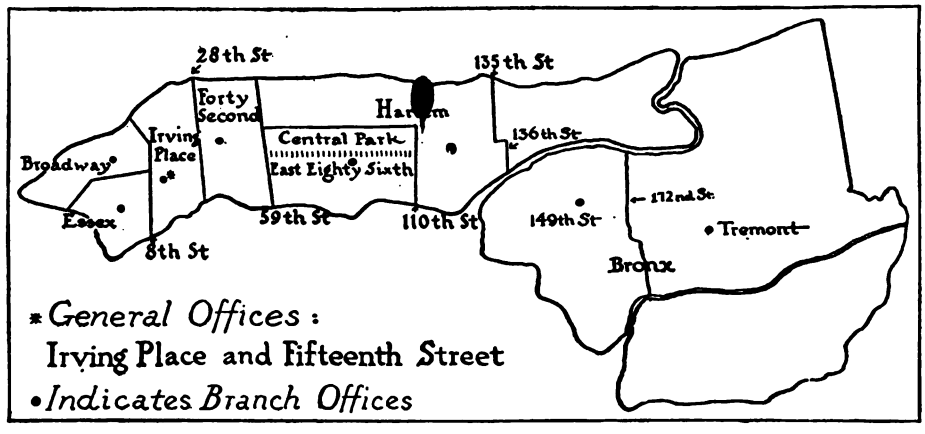
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The EDISON Monthly

and Electrical Directory

SEPTEMBER 1919

THE NEW YORK EDISON COMPANY
Irving Place & 15th Street, N.Y.

The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

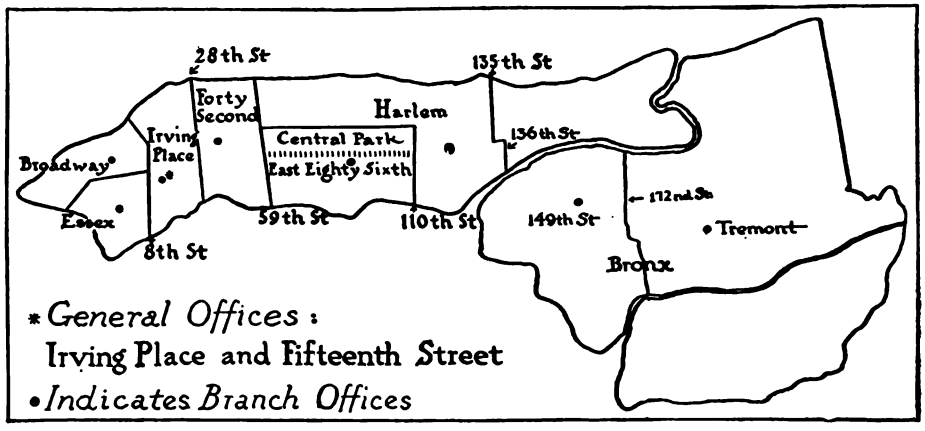
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

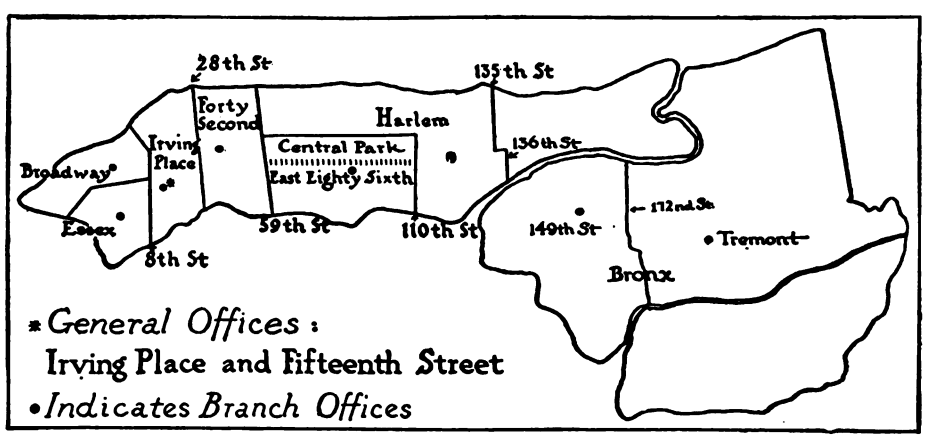
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

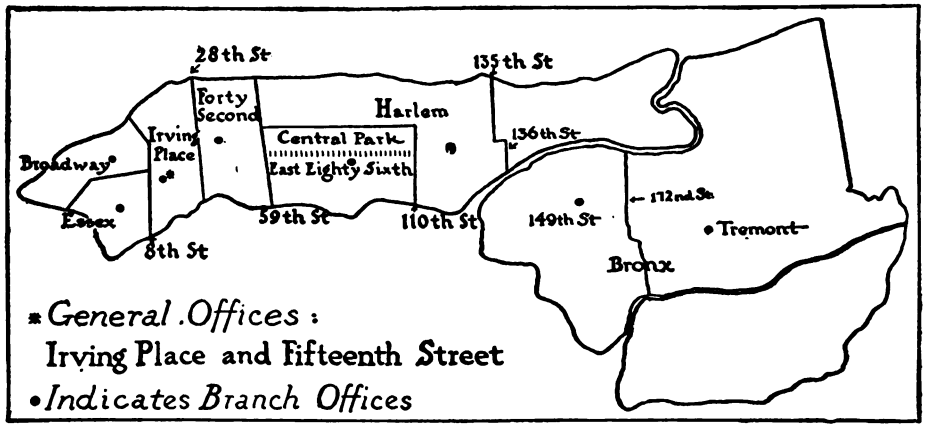
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

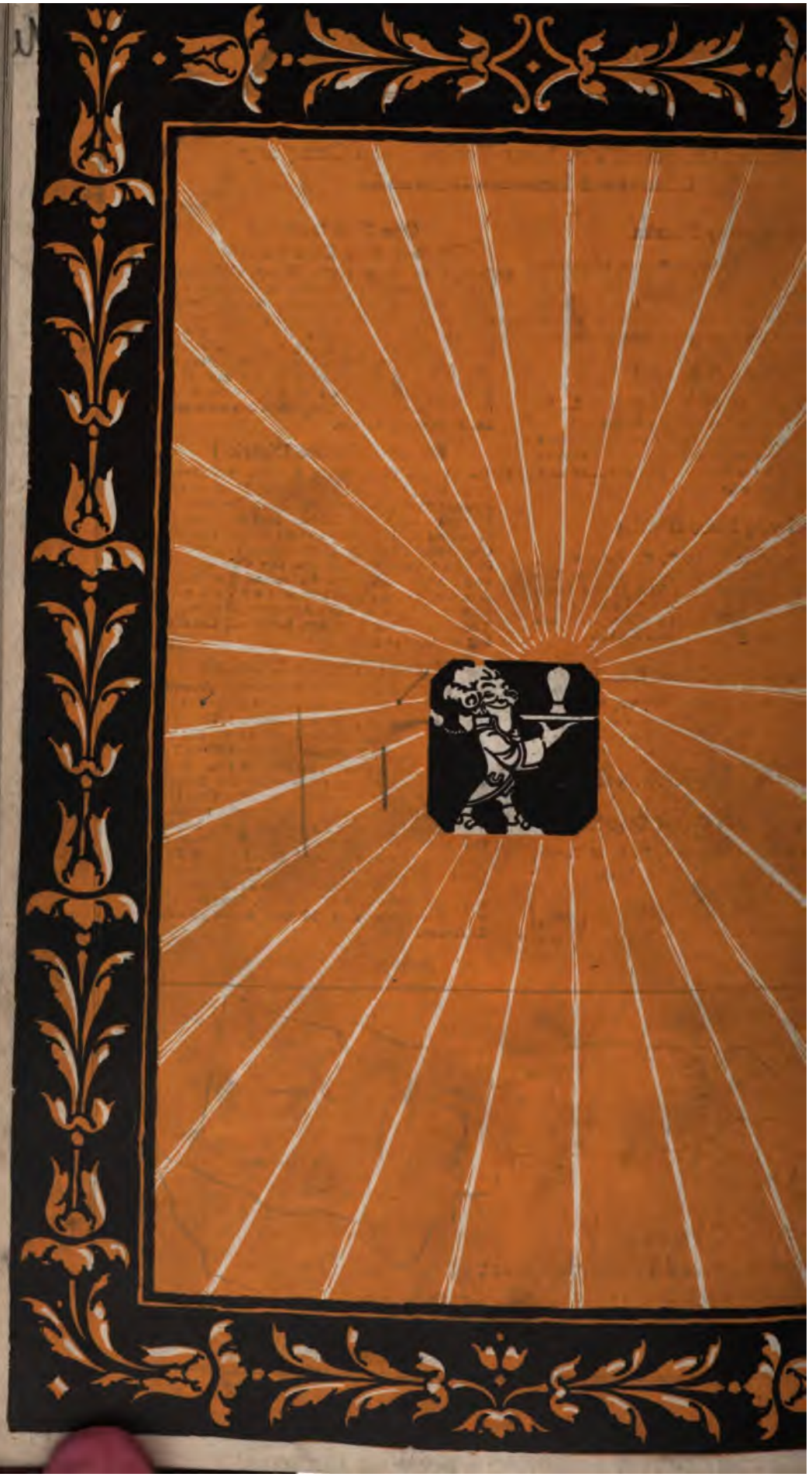
Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.





District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

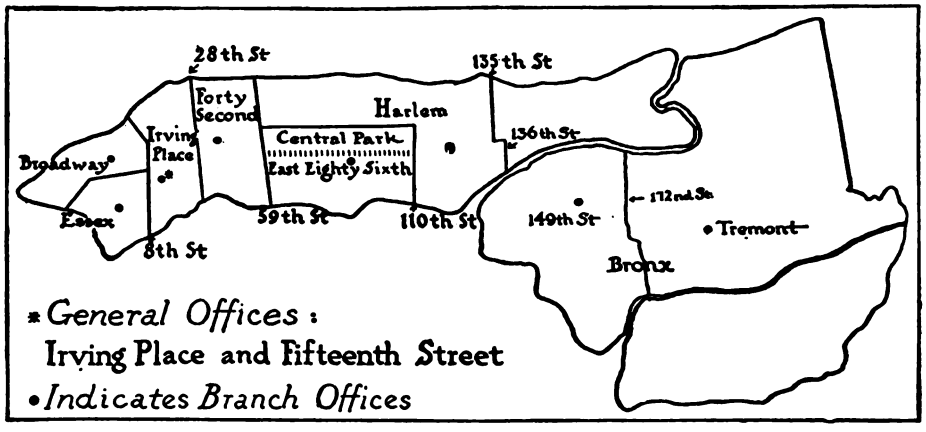
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

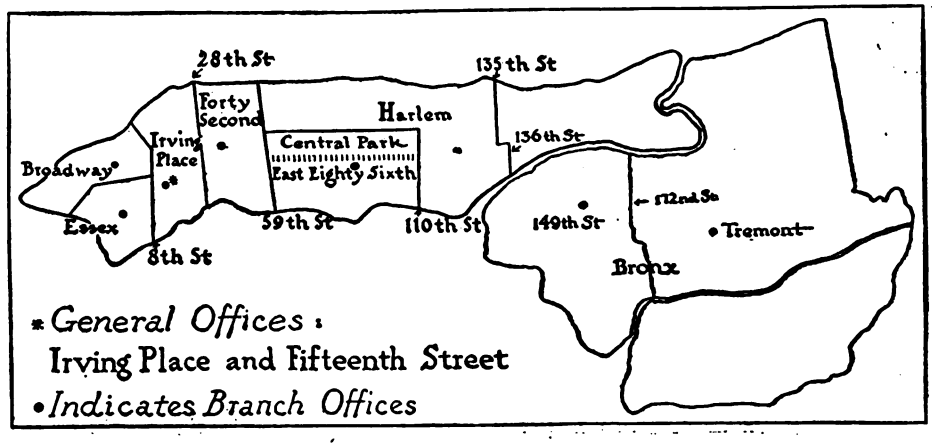
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The EDISON Monthly

and Electrical Directory

MARCH 1920

THE NEW YORK EDISON COMPANY
Irving Place & 15th Street, N.Y.

TECHNOLOGY DIVISION
VGA
Mr 25

The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

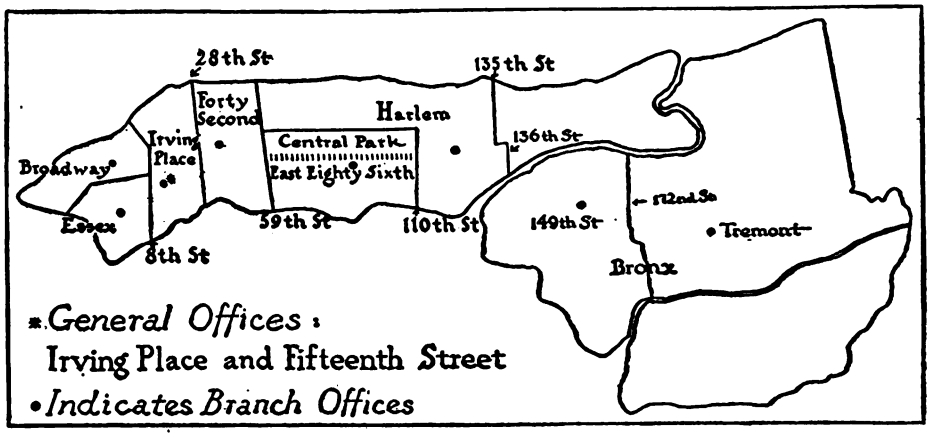
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The Edison Directory

An Announcement

THE very great increase in the number of names listed, and consequently the broadened scope and added importance of The Edison Directory make it necessary to issue it as a separate publication rather than as a department of The Edison Monthly. The change takes effect at once. The Directory in its new form will be distributed partly by mail and partly through the offices of The New York Edison Company. It will be sent without charge to anyone upon request.

The Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. Its lists include the names of dealers in every form of electric appliance, manufacturers or their agents, and contractors who do electrical work in the territory served by this Company. So far as is possible, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and of independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D T Brown, Manager; Telephone, Canal 8600. Bounderies: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

Norfolk Street District

Norfolk Street Office at 20 Norfolk Street, L P Bendall, Manager; Telephone, Orchard 4261. Boundaries: The Norfolk Street District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S F Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty second Street District

Office at 124 West 42nd Street, W M Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H S McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

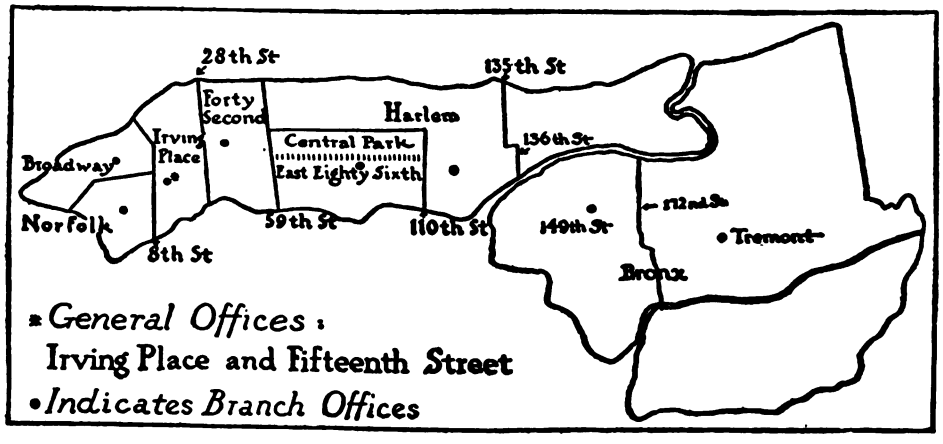
Office at 15 East 125th Street, William J Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (One Hundred and Forty-ninth Street District)

Office at 362 East 149th Street, William A Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

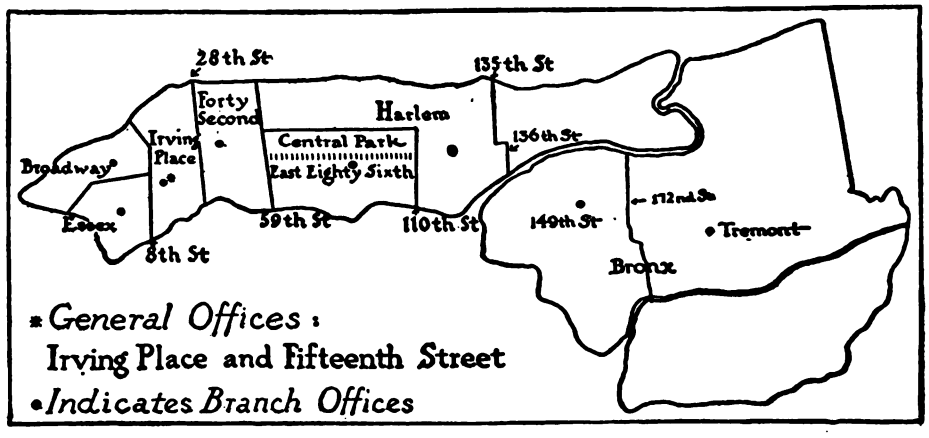
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to these desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

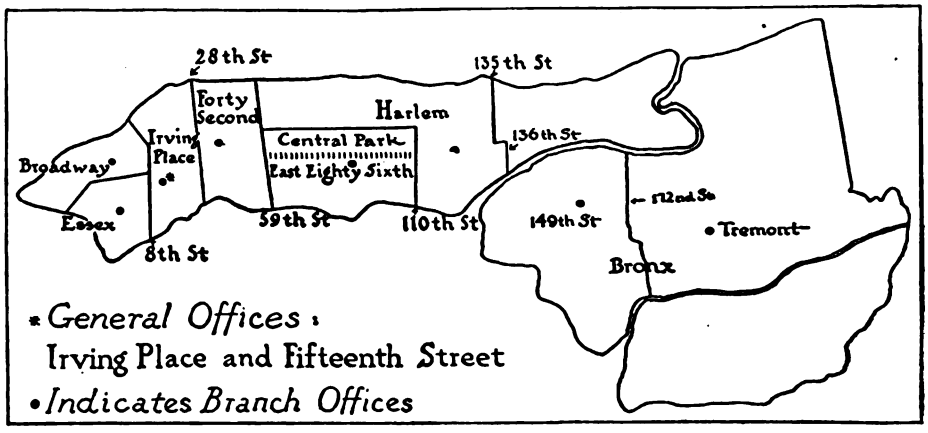
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The Edison Directory

as part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any departments of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company

District Offices of The New York Edison Company

Contract and Inspection Department

Broadway District

Office at 424 Broadway, D. T. Brown, Manager; Telephone, Canal 8600. Boundaries: The Broadway District includes the territory south of Christopher and Eighth Streets, west of the Bowery, and south of Catherine Street.

East Side District

Temporary office at 124 Essex Street, L. P. Bendall, Manager; Telephone, Orchard 1960. Boundaries: The East Side District includes the territory south of Eighth Street, east of and including the Bowery, and north of and including Catherine Street.

Irving Place District

Office at 10 Irving Place, S. F. Fahnestock, Manager; Telephone, Stuyvesant 5600, Extension 405. Boundaries: The Irving Place District includes the territory between and including Eighth Street and Twenty-eighth Street from the East to North Rivers.

Forty-second Street District

Office at 124 West 42nd Street, W. M. Kerr, Manager; Telephone, Bryant 5262, Extension 98. Boundaries: The Forty-second Street District includes the territory north of Twenty-eighth Street to and including Fifty-ninth Street from the East to the North Rivers.

Eighty-sixth Street District

Office at 151 East 86th Street, H. S. McGrath, Manager; Telephone, Lenox 7780. Boundaries: The Eighty-sixth Street District includes the territory north of Fifty-ninth Street and south of One Hundred and Tenth Street, east of Central Park West.

One Hundred and Twenty-fifth Street District

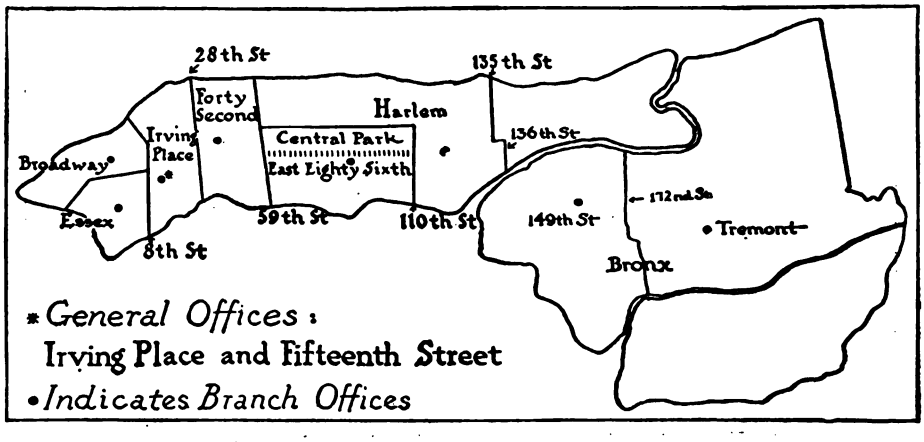
Office at 15 East 125th Street, William J. Meara, Manager; Telephone, Harlem 4020. Boundaries: The One Hundred and Twenty-fifth Street District includes the territory bounded by the North River, Fifty-ninth Street, Central Park West, One Hundred and Tenth Street, East River to and including One Hundred and Thirty-sixth Street east of St. Nicholas Avenue, and to the south side of One Hundred and Thirty-fifth Street west of St. Nicholas Avenue.

Bronx (Melrose District)

Office at 362 East 149th Street, William A. Ruenzler, Manager; Telephone, Melrose 9900. Boundaries: All territory lying between the Harlem and Bronx Rivers and between One Hundred and Thirty-second Street and East One Hundred and Seventy-second Street. The dividing number between the One Hundred and Forty-ninth Street Office and the Tremont Avenue Office, on all avenues with the exception of Third and Park Avenues, is 1499. On Third and Park Avenues, however, the dividing number is 3699.

Bronx (Tremont District)

Office at Tremont and Monterey Avenues, Albert Goldman, Assistant General Commercial Manager, Bronx District; Telephone Tremont 6900, Extension 225; Richard Goff, Manager, Tremont Avenue Office; Telephone, Tremont 6900, Extension 100. Boundaries: The territory covered by the Tremont Office extends from approximately One Hundred and Seventy-second Street, north to Yonkers City line; all territory lying between the Harlem River and Two Hundred and Twenty-fifth Street, and the Hudson River from Two Hundred and Twenty-fifth Street to Yonkers on the West, and the Bronx River on the East, including Woodlawn, Spuyten Duyvil, Riverdale and Mount Saint Vincent Districts.



The Edison Directory

As part of The Edison Monthly

THE Edison Directory is published for the purpose of rendering the greatest possible assistance to those desiring to use Edison Service for any purpose. It is issued monthly and, so far as is practicable, the accuracy of each name and address is carefully verified.

The Company desires to encourage the establishment of the largest possible number of dealers in electrical devices, appliances, and incandescent lamps, and independent electric contractors who do satisfactory work at fair prices. It is believed that this policy is in keeping with the public interest, and is aided through a directory of this nature.

Another object of the Directory is to give to every manufacturer, agent, dealer, and contractor an equal chance with those desiring to purchase devices or to have equipment made, coming in contact with any department of the Company. Each manufacturer or agent has equal right to free space, electric current and demonstration in the various show-rooms of the Company, and equal endorsement by the Company's representatives when talking with prospective purchasers. The Company's representatives are forbidden to recommend any particular device as compared with another, and final choice in the purchase must rest with the purchaser.

It might be added that the Company itself makes no sales, nor does it install any kind of electrical equipment upon the customer's premises, other than directly identified with its service and meter. Appliances are shown and demonstrated and an order from the purchaser will be received and transmitted to the manufacturer or agent of the appliance selected, without commission or charge of any kind for this service.

The New York Edison Company